

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13477	(digital\$4 or electronic\$4) with seal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:00
L2	47048	certificat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:00
L3	411	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:00
read (L4)	96	3 and @ad<"20000808"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:01
L5	776	seal with certificat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:01
L6	356	5 and @ad<"20000808"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:02
L7	149905	revok\$3 or revocat\$3 or expir\$5 or valid\$5 and invalid\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:03
L8	37	6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:03
read (L9)	17	8 not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 15:03

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31225	seal.clm.	US-PGPUB	OR	ON	2006/03/28 15:55
L2	3255	certificat\$3.clm.	US-PGPUB	OR	ON	2006/03/28 15:55
L3	62	1 and 2	US-PGPUB	OR	ON	2006/03/28 15:55
L4	1	3 and @ad<"20000808"	US-PGPUB	OR	ON	2006/03/28 15:55

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Set	Items	Description
S1	15974790	DIGITAL???? OR ELECTRONIC???? OR ONLINE? ? OR (ON (W) ONLI-NE? ?)
S2	428325	SEAL OR SEALS
S3	7632	S1 (6N) S2
S4	1538142	CERTIFICAT????
S5	1445	S3 AND S4
S6	701	S5 NOT PY>2000
S7	5797968	IDENTIF???????

S8 211 S6 AND S7
 S9 33622758 DATE OR DATES OR TIME OR TIMES
 S10 125 S8 AND S9
 S11 2796492 REVOK??? OR REVOCAT???? OR EXPIR????? OR VALID????? OR INV-
 ALID?????
 S12 58 S10 AND S11
 S13 40 RD (unique items)
 S14 5265 SEAL? ? (8N) CERTIFICAT????
 S15 628 S3 AND S14
 S16 12462843 DIGITAL???? OR ELECTRONIC????
 S17 4432 S16 (6N) S2
 S18 239 S14 AND S17
 S19 4281649 OBJECT OR OBJECTS OR IMAGE OR IMAGES
 S20 4876 (S2 OR S4) (8N) S19
 S21 4 S18 AND S20
 S22 4 S21 NOT S13
 S23 3 RD (unique items)
 S24 0 S23 NOT PY>2000
 ?

? t s13/medium,k/1-40

13/K/1 (Item 1 from file: 15)
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02363339 117540918

Commercial security on the Internet

Liddy, Carrie

Internet Research v6n2/3 PP: 75-78 1996

ISSN: 1066-2243 JRNL CODE: NTRS

WORD COUNT: 1650

...ABSTRACT: resolve many of these business delivery challenges. With the advent of public key security and **certification**, the transition from current business delivery to future Internet-based systems is now possible. How...

...applications in the future, and also considers the theoretical applications of public key technology and **certification** processes.
...TEXT: Diverse products and integration methods make many levels of security services possible. At the same **time**, providing the right level of security is a key to the successful provision of electronic...

...technology concept. Public key technology allows multiple users to communicate securely and at the same **time** controls access to data. Additionally, public key technology providers have begun to introduce low-cost...

...added products can provide confidentiality (through the use of encryption), authentication of originator and document **validation** (through digital signature), authentication of individuals and servers (through digital **certification** processes) and verification of sending and receiving of data (through the use of non-repudiation...

...ensure that documents are kept confidential are well-developed, dating back to the use of **seals** by ancient Egyptian society.

In the **electronic** world, confidentiality is delivered through the use of encryption. Encryption is more secure than manual...

...are who they say they are - is a written signature. Documents are signed and individuals **identified** through the use of signature and visual recognition. The Internet does not, however, allow for...

...data known as the digital signature.

Digital authentication of the individual is verified through the **certification** process. A third party will authenticate an individual or corporation, and provide them with a digital ID (**certificate**). Businesses and individuals completing electronic transactions can then use a digital ID **certificate** as a unique **identifier**, authenticating their electronic transactions. This becomes the cybernetic equivalent of a picture ID.

A unique...

...will be secured as both parties completing the transaction will be able to authenticate the **validity** of the transaction by "swapping" digital

certificates . It is the complex algorithms of public key technology that enable the creation and integrity of these unique digital **certificates** .

'...The success of public key technology in the commercial marketplace is becoming apparent...'

The success...

...required to deliver a complete value-added public key business support system. These pieces include **certification** providers, encryption software providers, network providers and value-added applications that are able to use...or causing competitive disadvantage for businesses. It is anticipated that most governments will control encryption, **certification** , and legal recognition of digital signature and liabilities through regulation or legislation.

Last, the early...

13/K/2 (Item 2 from file: 15)

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02328393 86926050

E-commerce: the medium is the mart

Rao, Siriginidi Subba

New Library World v101n1154 PP: 53-59 2000

ISSN: 0307-4803 JRNL CODE: NLW

WORD COUNT: 3895

...ABSTRACT: legislation from international organizations and governments, and solutions with the use of cryptography and digital **certification** . Also e-commerce scenarios in the Indian context are discussed, with a three step evolutionary...

...to this new market paradigm to tap potential customers. It is only a matter of **time** before the waves of this change wash on Indian shores.

...TEXT: mutual advantage and is characterized by:

- connectivity between information systems of the partnering businesses;
- real **time** communication;
- two way communication;
- businesses having shared information; and
- use of Internet technologies.

These characteristics...

...an increasing rate in Europe, is accelerating the pace of change and for the first **time** providing the conditions for seriously free markets. The Internet provides affordable, accessible technology to bring...The software could be downloaded from the site to the scientist's desktop, cutting out **time** and aggravation. The mall will be broadening its range to chemicals, market information, and a...

...the item. Fraud could take many forms, such as using Web resources to

fraudulently obtain **invalid** credit card numbers that nevertheless pass through security checks. In principle, hackers could intercept a...be held in the public domain, by a third party. Based on this the digital **certificates**, also known as Server IDs, work. Digital **certificates** work as a form of **identification**, issued by a third party, called a **certification** authority (CA). Before they issue a **certificate**, CAs look closely at a company or individual, in order to ensure their integrity. When they issue the **certificate**, they endorse a company's or individual's right to trade under their name, and...

...Web site in order to obtain credit card details from those visiting the site. Digital **certificates** ensure that this could not happen and a transaction could be conducted in a secure manner, by inserting an **electronic** equivalent of a **seal**, which confirms the identity of both parties, and checks that it stays intact during the...

...which they would be dealing, and the transaction would remain secure. For the vendor, digital **certificates** offer the further potential to **identify** the customer's status (Rai et al., 1997a and 1997b; VeriSign).

Thus, digital **certificates** not only make the purchase procedure safe for customers; they also provide exact information for...the number of consumers hooked onto the Internet;

(2) consumers, themselves having less and less **time** at their disposal to spend on shopping; and

(3) continuous improvements in hardware and software...

...movements of goods or the performance of the service. It is only a matter of **time** before Indian companies adapt themselves to this new paradigm. The trends that may dictate the...

...is paid if he/she visits a web site for a given of number of **times**, would be used to good effect in future. The Mitsubishi Lancer web site allows the...

...this will be happening only in the developed world. It is only a matter of **time** before the waves of this change wash on Indian shores.

References

1. ChemWeb (1998), "ChemWeb...

...report.html

3. Kurup, E.J. (1999), "Business click", The Economic **Times**, 20 June, p. 7.

4. OECD (1998a), "Business-to-consumer electronic commerce survey of status ...

13/K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02275712 86922386

Impact of an ISO 9001 compliant quality management system on a university research enterprise

A.J. Walker

TQM Magazine v9n6 PP: 397 1997

ISSN: 0954-478X JRNL CODE: TQM

WORD COUNT: 2246

...TEXT: learned journals;

- the number of under- and postgraduate students graduating in the allotted period of **time** ;

- the role played by academics in professional forums;

- the commitment to excellence in teaching activity...

...level and quality of contracts or consulting;

- membership of, and contribution to professional forums.

Full- **time** staff and postgraduate students

At the present **time** there are two full- **time** staff members, and 15 postgraduate students. The latter is highly variable as new intake swells the number and graduations reduce the cohort. The SEAL Postgraduate Laboratory can accommodate ten full- **time** students comfortably, and at any **time** there might be five part- **time** research students.

The nominal duration of a full- **time** Master's research programme is 12 calendar months. Until recently, the actual duration was closer to two years, largely due the **time** taken to crystallize the actual requirements of the research project, and the **time** taken to produce the research dissertation.

Quality problems and improvement opportunities

The following issues are...

...in the model changes to requirements consolidation, product test specification development, and to product verification, **validation** and testing.

A brief overview of the application of the process clauses of the ISO...the South African Bureau of Standards (SABS) on 16 February 1995. Certain non-conformances were **identified** and were subsequently cleared during April. Having met the requirements of the International Standard, the award of the **certification** took place on 19 July 1995.

The award of the **certification** was highly significant for the SEAL, as it is believed that the SEAL is the...

...meet both requirements, to the benefit of the student.

SEAL interaction with local industry

The **certification** of the SEAL to ISO 9001 requirements has not had an immediate impact on the...

...community and to try and improve the competitiveness of the South African software industry.

The **SEAL** has pioneered **electronic** support for quality management in the local community, and the SEAL file server, taken together...
...the ISO 9001 QMS.

Impact of SEAL QMS on University stakeholders

Perhaps not surprisingly, the **certification** of the SEAL to ISO 9001 has had limited impact on the Department of Electrical...fact that the support of the SEAL falls heavily on the shoulders of the full- **time** staff members, and the Director in particular. With most universities in South Africa subject to severe financial stringency there is little opportunity to take on additional full- **time** members to share the burden of the QMS support.

From a different perspective though, this...

...2 (1996), Software process assessment part 2: a reference model for processes and process capability **date** , PDTR, October.

Commentary

A clear application of ISO 9000 in an unusual setting. Another illustration ...

13/K/4 (Item 4 from file: 15)
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02094907 64875085

Trust requirements in e-business

Wilikens, Marc; Morris, Philip; Masera, Marcelo
Association for Computing Machinery. Communications of the ACM v43n12
PP: 81-87 Dec 2000
ISSN: 0001-0782 JRNL CODE: GACM
WORD COUNT: 4469

...TEXT: the advent of e-business. Requirements for new e-business systems must therefore often be **identified** from the first principles of new business goals, and cannot simply be carried across from...

...concerning security, reliability, and availability must be made by trading off costs and benefits and **identifying** acceptable levels of risk.

The environment in which e-business systems operate is also changing...

...definition of e-business was formed. Initial views on trust requirements in e-business were **validated** in a workshop attended by 19 invited participants from European industry, universities, and public authorities ...or journalistic articles) are to be trusted by their suppliers, they may need mechanisms for **identifying** and tracing such objects in order to prevent unauthorized copying or use. In building trust...

...they are fully addressed.

Figure 1.

Table I.

Four broad categories of drivers have been **identified** by the European Dependability Initiative [12] as shaping new perspectives on trust requirements in e...of financial services including electronic payment (typically banks); trust service providers (providers of digital signatures, **certification** authorities, copyright management facilities, trusted portals for **digital** content or trust **seal** schemes); intermediaries (information brokers that provide information about other organizations involved in e-business or...

...E-Business Concept Model

A final way in which the complexity of the problem of **identifying** e-business requirements may be broken down is by considering the important types of "things...

...relationships between them. Again, this model is simply a thinking tool, aimed at helping to **identify** significant relationships between stakeholders, information, and infrastructure in an e-business system. The relationships **identified** in the model do not form a complete set, and are certainly not mandatory-any...for a stable and interoperable legal and business framework for e-business. These requirements have been **identified** from the literature and **validated** in the TRUST-EC workshop as described in [6].

We list, as examples, requirements relating...

...content, or simply order, invoice, and payment information for online retailers. Requirements that have been **identified** in relation to digital assets are:

Confidentiality of sensitive information, including customer, payment, and product...

...product information for consumers) should be accessible to those who need it within an acceptable **time** frame.

Identification of digital objects: to facilitate prevention of unauthorized copying and traceability of objects (see the...

...quality agreed upon with the supplier.

Management of risks to critical information: businesses need to **identify** likely threats and to decide upon how to either guard against the threats or manage...

...issues for traditional concepts of trust and dependability. The framework has also been helpful in **identifying** a full range of high-level trust requirements for each of the four case studies...

...work on trust and dependability, such a framework will in the future be useful in **identifying** and structuring other types of requirements for new e-business systems. This will be especially...

...models, so that requirements cannot simply be carried over from existing systems and must be **identified** from first principles, using high-level business objectives. For example, the list of stakeholders and process models provides a first step for scenario or use-case analysis enabling the **identification** of functional requirements. The concept model may help to

bring out nonfunctional requirements or constraints...

13/K/5 (Item 5 from file: 15)
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02075258 62414713

Taking the credit

Beishon, Marc
Director v54n2 PP: 113 Sep 2000
ISSN: 0012-3242 JRNL CODE: DRT
WORD COUNT: 751

...ABSTRACT: methods they have built up over the years. Governments are just beginning to place a **seal** of approval on **digital** signatures. Within the EU, there is a steady stream of directives that is coming to...
...TEXT: methods they've built up over the years.

Governments are just starting to place a **seal** of approval on so-called **digital** signatures, an electronic means of authenticating the sender of an e-mail or document. The...

...practical terms, companies have already been able to set up secure trading networks using digital **certificates**, which use the digital signatures of **certification** authorities as authentication mechanisms and which are usually encrypted.

Leo Burnett, the big US advertising agency, uses **certification** from BT called Trustwise to allow internal staff in its worldwide offices to access highly...

...central database. Trustwise is based on technology from US VeriSign, probably the world's largest **certification** authority.

As Simon Lofthouse, marketing director at InterClear, another **certification** company, comments: "Digital **certificates** are used to their best effect in closely **identifiable** communities, such as suppliers doing business with a supermarket chain."
But it is much harder...

...a little more complicated. One solution is for mortgage providers to ask someone to present **identification** at a branch before issuing a digital **certificate**.

Companies operating on the internet have to determine the risks behind the new channel and set the rules accordingly. As Lofthouse adds, issuing digital **certificates** is not 100 per cent reliable -just as someone presenting a driver's licence may...

...Mixer" technology generates a separate 16 digit number for each online sale. That number is **valid** only for one transaction and will be accepted by Visa, Mastercard and internet retailers when...

...issued each year, automating even a small fraction could save mountains of paper and much **time**. In fact, research from Killen & Associates predicts that 70 per cent of all bills in...

13/K/6 (Item 6 from file: 15)
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02072140 61698313

Electronic signatures: A lynchpin for E-commerce?

Krohm, Gregory C
Society of Chartered Property & Casualty Underwriters. CPCU Journal v53n3
PP: 187-190 Fall 2000
ISSN: 0162-2706 JRNL CODE: CPC
WORD COUNT: 3230

...TEXT: for "free." Actually, these casual transactions are hosted by a company hoping to capture "eyeball **time**" or "click streams." In many electronic and nonelectronic settings, goods and services are bought with ...

...To boost the scope and sophistication of e-commerce, parties must be able to easily **identify** each other, "sign" (fix their identity to) agreements, and know that documents have not been...

...electronic media.

Many business-to-business transactions and legally sensitive retail transactions depend upon secure **identification** of people and documents. Insurance, being a serious and legally binding promise, is particularly sensitive...

...However, 14 percent of the respondents indicated that they did use digital signatures and digital **certificates** for other purposes. Digitized handwritten signatures were seldom cited as tools in use (3 percent of respondents).

The Law

Despite the casual use of security devices for electronic transactions to **date**, the issue has attracted a great deal of attention in the legal profession, among trade...or foreign commerce, notwithstanding any statute, regulation, or other rule of law, the legal effect, **validity**, or enforceability of such contract, agreement, or record shall not be denied:

(1) on the...

...distinct number. This unique number could be used as a unique and trustworthy form of **identification**, similar to a password, to enter protected web sites. In April 2000, Intel backed down...
...even bound, online. However, an agent would contact the applicant within a short period of **time** to verify identity and/or consummate the transaction.

The backbone of Internet security today is...the personal identity of the client with which it is communicating. How can you reliably **identify** the individual or corporation with which you are communicating? This is clearly important for legal and underwriting reasons.

The answer may be a "digital signature," also known as "digital **certificate**" and "digital ID." A digital signature links a personal

identity to a pair of electronic "keys" used to encrypt and sign digital information. A digital **certificate** makes it possible to verify a representation in an electronic message about the identity of...

...anyone who asks. These digital signatures are issued, verified, and controlled by a so-called **certification** authority (CA). The CA assigns a code or private key to each of its **certificate** holders. This key is the **electronic** equivalent to a wax **seal**, hallmark, or other physical sign of identity. The private key, like a PIN number, should...

...following elements to a secure digital signature:

*owner/sender's public key

* owner's name

* **expiration date** of the public key

* name of the issuer (the CA that issued the digital signature...

...The main commercial thrust behind digital signatures comes from a handful of companies that issue **certificates** of authenticity.¹ Security problems are not completely resolved by the CA, or issuing authority...

...can be trusted to keep account information and personal keys secret?

2. How can the **certificate** agent be sure I am who I say I am?

3. What about people with...

...as the weakest link." Clever hackers look for

breaches in the armor rather than waste **time** and energy on frontal attacks on state-of-the-art encryption.

Another issue surrounds the performance of the third party issuing the **certificate** and associated private key. They are the equivalent of electronic notaries. Each major CA has...

...of its liability (see for example, Verisign, 1997).

Can the CA be trusted to accurately **identify** a **certificate** holder? So far, the reliability of these new entities has not been challenged, or defined...

...other bases of liability that have not yet emerged. The law has not yet had **time** to adapt to the business of a **certification** authority. Only **time** will tell how CA performance and case law develop.

Conclusion

Security problems are not unique...paper currently found at: <http://www.abanet.org/scitech/abaacca.html>.

Smedinghoff, Thomas, J., " **Certification** Authority Liability Analysis," February 1998, prepared for the American Bankers Association and currently found at...

13/K/7 (Item 7 from file: 15)

28-Mar-06

DIALOG(R)File 15:ABI/Inform(R)
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02069179 61768226

Digital signatures: A sea change for the industry

Maciag, Gregory A

National Underwriter v104n40 PP: 43-44 Oct 2, 2000

ISSN: 0893-8202 JRNL CODE: NUD

WORD COUNT: 1570

...ABSTRACT: insurers right out of the gate, which opens on the law's October 1 effective **date** . Almost nothing is done in the insurance industry without a signature, so the ability to...

...TEXT: the other end really is who he or she says they are.

To be realistic, **identifying** people in the real world is based on trust more than on ink and paper...

...on insurers right out of the gate, which opens on the laws Oct. 1 effective **date** .

Almost nothing is done in the insurance industry without a signature, so the ability to...

...to do business with an electronic signature or an old-fashioned written one. It takes **time** for change like this to be widely accepted in any society.

Some documents are excluded...

...cancellations or terminations of health insurance and life insurance (except annuities), and product recalls. In **time** , this, too, will change.

The law specifically states that it applies to the "business of...
...document or e-mail know that it really was sent by the person who is **identified** as sending it. Just as important, a digital signature ensures that the document you received...

...sign.

Other users of the software can check to see if your digital signature is **valid** -that not only is it from you, but that nothing inside of the message has...that can be digitally signed by claimants.

VeriSign (www.verisign.com), a provider of digital **certificates** for ecommerce and other applications, says its services can be used in the insurance industry...

...of business. After all, we are often asked to sign receipts and orders, or to **identify** ourselves in order to enter buildings or secure areas.

When I use my pass at...

...signatures. But full names haven't always been appended to letters and documents. From Roman **times** , documents were **validated** by either including a signature or a seal.
But after the 8th century, a seal...

...write. The Magna Carta, for instance, was sealed-not signed-by England's

King John. **Digital** signatures are essentially an **electronic seal** .

Of course, technology always has some downsides. Take John Hancock, who as president of the...

...a household name.

While we may continue to see the ceremonial wet signature events from **time** to **time** , the real revolution in digital signature technology (in whatever form it ultimately takes) will be...

13/K/8 (Item 8 from file: 15)

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02066834 60815167

Digital signatures seal Web deals

Watson, James K Jr; Choksy, Carol

Informationweek n804 PP: RB26-RB28 Sep 18, 2000

ISSN: 8750-6874 JRNL CODE: IWK

WORD COUNT: 1077

Digital signatures seal Web deals

...TEXT: to physically sign contracts or other legal documents and ship them back and forth to **seal** a deal.

The legal acceptance of **digital** signatures means businesses and individuals will be able to finalize deals online with less **time** , cost, and effort. Reducing-or in some cases eliminating-printing and shipping costs is significant. But more important is the effort and **time** cut out of finalizing a contract. Complex, online businessto-business transactions can become a real- **time** affair

The biggest impact of digital signatures will come in financial services. Think of all...

...sign gets around this obstacle, and it also simplifies the process of third-party legal **validation** for deals involving more than one trading partner.

How It Works

Digital signatures can be any form of **electronic seal** agreed to by the two parties. The most common approach relies on digital **certificates** and encryption. The encrypted signature can reside on a machine, be carried on smart cards, be authenticated via passwords or personal **identification** numbers, or even be a biometric authentication, such as a fingerprint or retinal pattern.

A...

...spoken to one another. Technology needs to establish credibility, security, and trust.

That's where **certification** authority technology comes in-establishing the parties as who they say they are. Key vendors...

...and Xcert. Service providers, such as Baltimore Technologies,

GlobalSign, and VeriSign, act as third-party **certification** authorities to issue **certificates** to trading partners and **validate** them before transactions are executed. There's also a role for **certification** authority clearinghouses or consortia such as Identrus, which **validates** the **certifications** of the buyers' and sellers' banks.

Another obstacle to digital signatures is changing technology. For example, if a seller implements new digital signature technology, it will have to re-issue **certificates** to its customers before handling new transactions or requests. While this may slow customer adoption...

...health care industries can process claims and payments online, while government agencies can automate many **time** -consuming and paper-intensive processes. Manufacturing also stands to benefit by automating purchase approvals through...

...raw material acquisition to shipment approval to inventory ordering speeds up, companies could drastically reduce **time** -to-market.

Looking Ahead

With the federal government's nod, the speed of E-commerce...and mutual benefit still will be difficult to build. Technology vendors can still provide shoddy **certificates** without the security or authentication they promise.

But the bottom line is that buyers and...

13/K/9 (Item 9 from file: 15)
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02062949 59943773

Digital signatures: A sea change for insurers

Maciag, Gregory A

National Underwriter v104n37 PP: 59-60 Sep 11, 2000

ISSN: 1042-6841 JRNL CODE: NUN

WORD COUNT: 1590

...TEXT: the other end really is who he or she says they are.

To be realistic, **identifying** people in the real world is based on trust more than on ink and paper...

...insurers right out of the gate, which opens on the law's Oct. 1 effective **date** .

Almost nothing is done in the insurance industry without a signature, so the ability to...

...to do business with an electronic signature or an old-fashioned written one. It takes **time** for change like this to be widely accepted in any society.

Some documents are excluded...

...cancellations or terminations of health insurance and life insurance (except annuities), and product recalls. In **time** , this, too, will change.

The law specifically states that it applies to the "business of...

...document or e-mail know that it really was sent by the person who is **identified** as sending it. Just as important, a digital signature ensures that the document you received...

...sign.

Other users of the software can check to see if your digital signature is **valid** -that not only is it from you, but that nothing inside of the message has...that can be digitally signed by claimants.

VeriSign (www.verisign.com), a provider of digital **certificates** for e-commerce and other applications, says its services can be used in the insurance...

...of business. After all, we are often asked to sign receipts and orders, or to **identify** ourselves in order to enter buildings or secure areas.

When I use my pass at...

...signatures. But full names haven't always been appended to letters and documents. From Roman **times**, documents were **validated** by either including a signature or a seal.

But after the Sth century, a seal...

...write. The Magna Carta, for instance, was sealed-not signed-by England's King John. **Digital** signatures are essentially an **electronic seal**.

Of course, technology always has some downsides. Take John Hancock, who as president of the...

...a household name.

While we may continue to see the ceremonial wet signature events from **time** to **time**, the real revolution in digital signature technology (in whatever form it ultimately takes) will be...

13/K/10 (Item 10 from file: 15)
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01994992 50809019

Legally binding E-documents move closer to reality

Wilde, Candee

Informationweek n776 PP: 120-126 Mar 6, 2000

ISSN: 8750-6874 JRNL CODE: IWK

WORD COUNT: 2356

...DESCRIPTORS: Digital **certificates** ;

...ABSTRACT: expected to overcome these problems and provide strong user authentication through the use of digital **certificates**, digital signatures, and encryption. According to Douglas Graham of KPMG, the biggest problem in adopting...

...TEXT: without paper or physical signatures is an important step for E-commerce. Using a digital- **certificate** system created by public key infrastructure vendor EOrigins Inc., the lease was created electronically, signed...

...ultimately will overcome those problems and provide strong user authentication through the use of digital **certificates**, digital signatures, and encryption.

The three major components of a public key infrastructure system are a **certificate** authority, a repository, and a registration authority. The registration authority is responsible for establishing a user's identity before instructing the **certificate** authority to create a digital **certificate**. The **certificate** authority creates a **certificate** and a public encryption key that travels with a document and can be used by...

...the signer and wasn't changed. The repository, usually a directory or database, stores digital **certificates**, **certificate** users, and **revocation** lists.

The biggest problem in adopting digitally signed E-documents is the confusing patchwork of...
...companies that know and trust one another. "Furthermore, high-value transactions take place all the **time** over unsecured, unrecorded phone lines between trusted trading partners based on something called their word...

...and co-owner Lois Elkin says the psychological barriers to digital signatures are generational. "As **time** goes by, the kids who have been brought up doing everything on computers will replace the generations brought up working on paper. The generation that tells **time** with digital clocks and ties their shoes with Velcro will have more acceptance of this," she says.

TIME TRAP- Overcoming psychological barriers to digital signatures is slow, Elkin says.

Even so, analysts expect...the E-document is routed to a special server called the Trusted Custodial Utility, which **validates** the signatures and adds a **date** and **time** stamp. At this point, a digital signature-a mathematical calculation of every bit in the document-is created. A digital signature is unique for every document and it **electronically seals** the document so it can't be altered without detection, even by the originator. This...

...not a legally binding document," Trotter says. The company says it works with customers to **identify** cost savings and profits resulting from its software, and charges a percentage of that number...

...s senior VP of technology.

After evaluating security measures, Ruesch "went the pure software digital **certificate** route," Szoc says. "We felt we had to go beyond the secure Internet interactions one..."

...RueschLink, a secure extranet built using CyberTrust's Secure Extranets package. The package includes a **certificate** authority, Web server, directory, database, firewall, access control, and managed services. CyberTrust's system supports...

...responsibility for maintaining security by agreeing to keep passwords secret and regulating the issuance and **revocation** of digital **certificates** . CyberTrust says it can build a PKI system for customers for \$50,000 to \$100...

...paper. "We only have 200 people at Persistence and we don't need them spending **time** searching for lost paper," she says. To change that, Persistence is testing a Webbased contract...forwarded to a database on the back end-without the question. So, at a later **time** , how does one prove the context or what was agreed upon? The answer, Gates says ...

13/K/11 (Item 11 from file: 15)
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01979584 46271193

Understanding contemporary cryptography and its wider impact upon the general law

Price, Simon A

International Review of Law, Computers & Technology v13n2 PP: 95-126 Aug 1999

ISSN: 1360-0869 JRNL CODE: IRLC

WORD COUNT: 18595

...ABSTRACT: understanding afforded to cryptography at the level of policy formation remains underdeveloped, ambiguous and, at **times** , misleading. One corollary of such solicitude is that a number of the most important and ...

...TEXT: understanding afforded to cryptography at the level of policy formation remains underdeveloped, ambiguous and, at **times** , misleading. One corollary of such solicitude is that a number of the most important and ...

...is, it seems, one that pervades history⁹ and there are, moreover, famous examples in modern **times** of cryptology's centrality to military campaigns.¹⁰ The ingenuity of the intellectual battles fought...

...Gordon touches upon above, cryptography is all around us, only hidden.¹³ For example, every **time** an individual uses a cash-point card, the data sent from head office to the...The problems associated with symmetric cryptosystems are intrinsically more fundamental than this and can be **identified** in two words, that of key-management. As Oei points out,³⁰ for symmetric cryptography...

...this is not realistic for electronic commerce for four reasons, though his arguments are equally **valid** for non-commercial activities. First, since electronic commerce often takes place between parties that do...

...foremost and far-reaching advantages of electronic commerce is that it is conducted in real **time** . However, the requirement of symmetric cryptography to exchange keys in advance will eliminate the utility of this convenience by introducing a **time** delay. Third, as we have already noted, communications across 'Cyberspace' are inherently insecure. This means...⁴¹

In 1978, Rivest, Shamir and Adleman published a paper which realised for

the first **time** the public-key encryption method put forward by Diffie and Hellman in 1976.⁴² The...

...on the computer's hard drive, and the user must type the pass phrase every **time** he or she wants to use the key.

a Select the desired key size. The...

...to a particular person, company or institution. In other words, a system is required to **identify** and authenticate users, or what Andersen et al. term a robust way of answering the...

...telephone directory. By the 1980s, the idea of such directories had succeeded to that of **certification** authorities. These were bodies that would sign and issue electronic documents to the effect that... cryptography's ability to provide such functionality.⁵⁵ Digital signatures provide the equivalent of an **electronic seal** that is affixed to an **electronic** document. The presence of such a signature allows the recipient of the communication to (1...

...should be noted, however, that the problems discussed in the preceding subsection in relation to **identifying** and authenticating the legitimate owner of a public key apply equally to the application of...

...as a cipher that cannot be broken by the brute force attack within a meaningful **time** scale and at reasonable cost or through the cunning of a cryptanalyst.⁶⁰ The concept of a 'meaningful **time** scale' seeks to inject the present discussion with an element of pragmatism, since, as we...is only 10

sup 10

years old, so 10

sup 25

years is a long **time**. With a 2048-bit key, a million million-attempts-per-second computers working in parallel will spend 10 sup 597

years finding the key. By that **time** the universe will have long collapsed or expanded into nothingness.⁶⁴

All practical public-key...

...realistic, though not guaranteed, opportunity of discovering the correct key, of one user, within a **time** scale that will aid the process for which the information is sort. At this stage...

...power of cryptography:

The student [i.e. Damien Doligez in the above example] expended substantial **time**, effort, and computing resources to decrypt a single message. Many messages will not be worth...it seems that the relationship that exists between the exerted effort required in terms of **time**, resources, expertise and finance, against the objective or subjective 'value' of the outcome, needs to...

...all its charm and consequential certainties, offers, for the most part, a slow, and at **times**, idiosyncratic reactionary forum for airing grievances and demanding redress that is far removed from the...

...whilst the associated technology of anonymous remailing allows e-mail to be stripped of all **identifying** information and sent to a recipient free of attribution.⁸¹ Cryptography is also vital for...revolutionary concept of widespread public access to and adoption of powerful encryption for the first **time** in history.⁸⁴ The prospect of a public communication network that is not readily amenable...what would otherwise be required.¹³⁶ Furthermore, since both the Directive and the DPA 1998 **identify** the nature of the data to be protected as a relevant factor to be taken... Technology has yet to issue a replacement standard, Triple-DES-essentially DES employed three consecutive **times** with three different keys-has emerged as the new de facto symmetric standard. Indeed, Triple...is held by RSA Data Security, Inc. of Redwood City, California, and is set to **expire** 17 years after issue, in the year 2000.

43. RSA works in the following manner...

...Zimmermann and not gone after MIT, it would have invited scorn. But MIT is three **times** as old as NSA, just as well funded, and even more influential in the military...interests of exactitude since, strictly, brute force attacks are possible using present technology, albeit the **time** scales involved are unwieldy. The question of 'cost' can also become an influencing factor.

61...

...1995, p 11. On a later breach, see J Gornall 'Netscape plugs latest leak' The **Times**, 27 September 1995, p SP/4. It was reported in January 1997 that Ian Goldberg...pp 46-50, 1995 and N Hawkes 'Extremists spread propaganda and terror on internet' The **Times**, 13 April 1995, p 7. On the wider problem of holocaust denial outwith information technology...

...could seriously damage our ability to fight serious and organised crime.' The press release also **identified** 'case studies' in which the use of encryption was employed to conceal serious criminal activity...Directive but both failed to be implemented by the 24 October 1998 deadline. At the **time** of writing, the appropriate implementation orders remain to be passed.

108. Schedule 1, Part 1...

...of the DPA 1998 provides that such a notice requires 'the data controller, within such **time** as is specified in the notice, to furnish the Commissioner in such form as may...knowledge of facts which are not in themselves obvious. The employer must keep up to **date**, but the court must be slow to blame him for not ploughing a lone furrow...

...1954] 1 WLR 835, 838, per Denning LJ.)

149. No formula exists that enables the **identifying** of what amounts to general practice though it is true to say that evidence of...

13/K/12 (Item 12 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)

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01780549 04-31540

Hands off!

Gooley, Toby B

Logistics Management & Distribution Report v38n2 PP: 38-42 Feb 1999

ISSN: 1098-7355 JRNL CODE: LMDR

WORD COUNT: 1950

ABSTRACT: The changing nature of cargo theft means this problem will be around for some **time** to come. But there is a lot shippers can do to protect their products - and...

...are: 1. Strengthen physical security at cargo handling facilities. 2. Screen employees carefully. 3. Minimize **identifying** marks on packaging. 4. Control access to cargo, documents and computers. 5. Screen truckers and...

...TEXT: The changing nature of cargo theft means this problem will be with us for some **time** to come.

But there's a lot shippers can do to protect their products-and...

...as soon as they start work and give them the keys to the palace."

Minimize **identifying** marks on packaging. If you do nothing else, get rid of packaging that invites thieves...

...Bernes tells of one client that had suffered frequent losses and finally agreed to eliminate **identifying** marks on its packaging. That paid off when thieves who robbed a freight forwarder's...

...access to cargo, documents, and computers. Badolato recommends using devices like electronic security cards to **validate** and record entry into cargo and document processing areas. Make sure that only people with...

...audits, he says.

Screen truckers and documents before handing over freight.

All drivers should present **valid identification** such as a Commercial Drivers License (CDL) as well as a vehicle-registration **certificate** before they are given a gate pass to pick up freight. The gate pass should ...seals, including holographic materials that are impossible for thieves to reproduce, have gained popularity.

Reusable **electronic seals** record the **time** and **date** a load was sealed and when doors were opened. Roberts' company now is developing a...

...security experts. Work with carriers, warehouses, and other service vendors to minimize the amount of **time** shipments and vehicles are waiting on docks and in parking lots. If driving straight through...

...cargo theft. Not only do you have to pay to replace the product and spend **time** with police, prosecutors, and the media, but there's also a loss of customer goodwill...

...This 147-page book covers such topics as how to develop a cargo-security program, **identification** and control of personnel, protecting cargo in transit, and more. Checklists help readers assess the...

13/K/13 (Item 13 from file: 15)
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01611422 02-62411

The trust business: Assurance services and e-commerce
Slyph, Jim; Bennett, Casey
Australian Accountant v68n2 PP: 43 Mar 1998
ISSN: 0004-8631 JRNL CODE: AAA
WORD COUNT: 1338

...ABSTRACT: Canadian Institute of Chartered Accountants to break down the barriers to electronic commerce by assuring **online** customers that businesses carrying the **seal** adhere to standard business practices and controls. WebTrust provides the framework and the methodology accountants

...TEXT: through electronic commerce, for the amount agreed to. This includes such matters as: appropriate transaction **identification** ;

transaction **validation** ; accuracy and completeness of transaction processing and related billings; disclosure of terms and billing elements

...assurance provider must be able to obtain) corroborative evidence that the entity meets all three **Electronic Commerce Principles**. Once the **seal** is obtained, the entity can continue to display it on its Web site for a limited **time** . If the assurance provider becomes aware of a change in circumstances, an update examination would...professionanl body in accordance with performance standards are qualified to issue the WebTrust seal. Training, **certification** and licensing ensure consistent application of the WebTrust principles and related criteria.

The WebTrust seal...

13/K/14 (Item 14 from file: 15)
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01037414 96-86807

Preserving the integrity of business records in the age of electronic commerce
Stornetta, W Scott
Computer Technology Review Special Supplement PP: 10 Winter/Spring 1995
ISSN: 0278-9647 JRNL CODE: CTN
WORD COUNT: 663

...ABSTRACT: s patented Digital Notary System certifies an electronic document by affixing a cryptographically secure digital **time** -stamp to the document's contents and by mathematically linking a cryptographic distillation of that...

...the distillations of all other certified documents in the world. This sealing of content in **time** , embodied in an electronic file called a Digital Notary **certificate** , enables anyone possessing the **certificate** and the document in question to instantly assess the **validity** of the

document and its **time** -stamp. For systems integrators and VARs, the enabling technology of the Digital Notary System represents...
...TEXT: without notice. Worse still, you can't selectively choose which records to preserve at the **time** they're created, because the ultimate value of a record won't be apparent until...

...can a physician facing a malpractice suit prove that patient records were created at the **time** of his action--and not on the day after he was served with the suit...

...allegation before, rather than after, the alleged breach.

In short, electronic records are a digital **time** bomb waiting to explode into unlimited (albeit mostly undeserved) liabilities in our increasingly litigious society...

...Surety Technologies, the company I co-founded, we wanted to completely and irrevocably defuse this **time** bomb by giving individuals and corporations a tamper-proof way to **seal** all their **electronic** records in content and in **time**. Without using encryption or keys of any form, and without ever requiring the document to...

...the patented Digital Notary System certifies an electronic document by affixing a cryptographically secure digital **time** -stamp to the document's contents, and by mathematically linking a cryptographic distillation of that...

...the distillations of all other certified documents in the world. This sealing of content in **time**, embodied in an electronic file called a Digital Notary **certificate**, enables anyone (even an adversary) possessing the **certificate** and the document in question to instantly assess the **validity** of the document and its **time** -stamp.

The Digital Notary System is designed to be integrated into the most common business applications, so that electronic record **certification** becomes one element among many in a reengineered business process. Since few can predict what...

...access to heterogeneous sources of information-information that needs to be relied on and possibly **validated** in the future.

Your customers already know their electronic records are vulnerable, but they've...

...to the problem because, until now, there wasn't any solution. As an integrator of **certification** technology, you can give your customers a way to prove that their vital electronic documents have not been tampered with and, conversely, a way to **identify** those few documents that have been altered. Most important of all, you can help to...

13/K/15 (Item 1 from file: 16)
DIALOG(R) File 16:Gale Group PROMT(R)
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08106491 Supplier Number: 67580667 (USE FORMAT 7 FOR FULLTEXT)
Equant Enables Secure Electronic Global Business-to-Business Transactions.
Business Wire, p2179

Dec 5, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 730

... today became the world's first network service provider to issue its own managed digital **certificates** that secure global business-to-business transactions over the Internet or an extranet.

Equant launched its DigiCerts service using its own **certification** authority (CA), which has been independently audited by Deloitte & Touche. Equant now offers a comprehensive range of digital **certificates**, providing electronic proofs of identity, such as digital signatures on documents for end-users of business-critical applications. Digital **certificates** **validate** a user as a "trusted person" so that other users receiving files or instructions have...

...enable multinational companies to conduct global e-commerce," said Charlier.

Many businesses compare a digital **certificate** issued by a **Certification** Authority to a Government passport. End-users can use a digital **certificate** to authenticate themselves, ensuring data confidentiality, integrity and non-repudiation. Equant manages the end-to-end service; whereas Equant's competitors often use third-party **certification** authorities, which means that the service is not managed by a single entity end to...

...the eBusiness process and its security.

Equant also is providing a unique Organization Trusted Stamp **certificate** - an **electronic** version of an official **seal** - as well as different classifications of individual, server and virtual private network (VPN) **certificates**. Using an Organization Trusted Stamp, companies can digitally sign high-value, multi-million-dollar contracts...

...digitally signed contracts as legally binding as those signed in ink.

Equant will issue digital **certificates** to secure most IP and e-commerce applications, such as:

- E-mail.

- Web communications (web...

...business e-commerce.

- Electronic contracts.

- VPN Access.

- Many applications distributed by ASPs.

Equant's digital **certificates** are based on Entrust Technology, a leading Public Key Infrastructure (PKI) software company. A fully redundant infrastructure of secure, around-the-clock **Certificate** Authority Centers has been set up in Atlanta and Montreal.

About Equant

Equant operates the...

...by Equant with the SEC, specifically the most recent filing on Form 20-F, which **identify** important risk factors that could cause actual results to differ from those contained in the...

...stock price. All forward-looking statements are based on information available to Equant on the **date** hereof, and Equant assumes no obligation to update such statements.

13/K/16 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07827607 Supplier Number: 65279141 (USE FORMAT 7 FOR FULLTEXT)
Legal status for digital signatures will mean faster commerce. Get ready.
-- Digital Signatures Seal Web Deals.(StartUp)(Industry Trend or Event)
Watson, James K., Jr.; Choksy, Carol
InformationWeek, pNA
Sept 18, 2000
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; General Trade
Word Count: 1240

Legal status for digital signatures will mean faster commerce. Get ready.
-- Digital Signatures Seal Web Deals.(StartUp)(Industry Trend or Event)

ABSTRACT:

...be completely automated. Businesses and their customers will be able to finalize deals in less **time**, with less cost and effort. The reduction or elimination of printing costs is also significant and business transactions can be accomplished in real **time**.

... to physically sign contracts or other legal documents and ship them back and forth to **seal** a deal.

The legal acceptance of **digital** signatures means businesses and individuals will be able to finalize deals online with less **time**, cost, and effort. Reducing-or in some cases eliminating-printing and shipping costs is significant. But more important is the effort and **time** cut out of finalizing a contract. Complex, online business-to-business transactions can become a real- **time** affair.

The biggest impact of digital signatures will come in financial services. Think of all...

...sign gets around this obstacle, and it also simplifies the process of third-party legal **validation** for deals involving more than one trading partner.

How It Works

Digital signatures can be any form of **electronic seal** agreed to by the two parties. The most common approach relies on digital **certificates** and encryption. The encrypted signature can reside on a machine, be carried on smart cards, be authenticated via passwords or personal **identification** numbers, or even be a biometric authentication, such as a fingerprint or retinal pattern.

A...

...spoken to one another. Technology needs to establish credibility, security, and trust.

That's where **certification** authority technology comes in-establishing the parties as who they say they are. Key vendors...

...and Xcert. Service providers, such as Baltimore Technologies, GlobalSign, and VeriSign, act as third-party **certification** authorities to

issue **certificates** to trading partners and **validate** them before transactions are executed. There's also a role for **certification** authority clearinghouses or consortia such as Identrus, which **validates** the **certifications** of the buyers' and sellers' banks.

Another obstacle to digital signatures is changing technology. For example, if a seller implements new digital signature technology, it will have to re-issue **certificates** to its customers before handling new transactions or requests. While this may slow customer adoption...

...health care industries can process claims and payments online, while government agencies can automate many **time** -consuming and paper-intensive processes. Manufacturing also stands to benefit by automating purchase approvals through...

...raw material acquisition to shipment approval to inventory ordering speeds up, companies could drastically reduce **time** -to-market.

Looking Ahead

With the federal government's nod, the speed of E-commerce...

...and mutual benefit still will be difficult to build. Technology vendors can still provide shoddy **certificates** without the security or authentication they promise.

But the bottom line is that buyers and...Reduced paperwork; faster approvals

- Increased velocity of fund transfers
- New business opportunities to act as **certification** authorities
- Automation of **time** -consuming and costly processes
- Automation of claims and payments
- Integration with insurance companies and provider...

13/K/17 (Item 3 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

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07727968 Supplier Number: 63993322 (USE FORMAT 7 FOR FULLTEXT)

Privacy Perspectives for Online Searchers.(Internet/Web/Online Service Information)

Duberman, Josh; Beaudet, Michael

Searcher, v8, n7, p32

July, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Professional

Word Count: 9923

... personal information is readily available on the Net. For example, if you've forgotten the **date** of a friend's birthday, just check <http://anybirthday.com>. That brings up another disquieting thought. Just how many companies or Web sites use a birth **date** to verify **identification** ? Once you know the birthday, it's simple to send a free, digital greeting card...

...is readily available on the Net. As the greatest competitive intelligence gold mine of modern **times** , the Internet is now rife with cyber-prospectors and claim-jumpers. Many information professionals are...
...As information professionals, sometimes the very questions we ask can be too revealing--even without **identifying** information attached. Searchers could seriously compromise companies' interests if certain patent or

trademark questions became...

...from consumer concerns in several areas:

1. The definition of "Sensitive" information -- For consumers, sensitive " **identifying** " information includes name, address, credit-card numbers, SSNs, etc. Information professionals have broader concerns along this axis of information privacy:

* A company is often more easily **identified** than an individual, and the **identifying** information less well-protected. For example, many Web sites capture surfers' IP addresses, which can be traced back to specific companies.

* The definition of what might **identify** individuals or companies is changing due to improvements in database and data-mining software.

* Key information may be revealed solely through the substance of the questions asked, without any **identifying** information attached.

2. Motive -- Consumers seek privacy primarily to avoid information harvesting for marketing purposes...

...clients. For example, a trademark must be maintained and "in use" in order to remain **valid** . If a competitor were alerted that someone was inquiring about their trademark, they could quickly...Particular inquiries might alert a government department or organization, which might have an even easier **time** finding out who was asking.

And of course, in matters involving litigation, it becomes crucial
...

...browser, for example -- or to refuse all communications, or to alert and ask you each **time** . This can be very effective in detecting and defeating programs that attempt to communicate your...

...e-mail service that can solve many of these problems. Their advanced features can include **time** -based **expiration** and even self-destructing messages, return receipts, and automatic encryption of incoming and outgoing messages...parties. However, we only divulge aggregate information about our users and will not share personally **identifying** information with any third party without your express consent. For example, we may disclose how...

...could be used to determine further information about the origin of the request.... Logs contain **time** of access but not length of **time** online. Patents retrieved during a search are not logged; search strategies are not logged." (See...well.

Some traditional search services do have well-publicized policies regarding the privacy of personally **identifying** information -- at least in the databases provided. LEXIS was badly burned when it offered access...

...malicious or illegal use. Perhaps eBay will have implemented increased security of communications by the **time** this article is published

There are also other communication security issues. Some search services promote...

...the privacy policy or other legal notices, the phrase "changes can be made at any **time** " is relatively common in these agreements. In fact, the agreements often state that these changes...program. Junkbusters president Jason Catlett said that wide adoption remains years away (The New York **Times** , 41712000). Catlett said that companies are using P3P as "an excuse to use in their...

...id=34.)

Privacy **Seals** - Good Housekeeping?

A number of **online** privacy **seals** have been established in an attempt to reassure consumers about often confusing privacy policy provisions. These **seals** include TRUSTe, CPA Web Trust, BBB **Online** , and SecureAssure. All of these **seals** set standards that participating sites must meet. (For details, check <http://www.truste.com>, <http://www.bbb.org>...

...privacy policy and other agreements.

Critics charge that an inherent conflict of interest exists with **certificate** programs subsidized by fees from participating sites. They also charge them with a lack of...

...on privacy won't work" (Industry Standard, March 20, 2000, P. 168).

Independent third-party **certification** could be very useful in promoting consumer trust, especially regarding sensitive issues. One particularly useful...agency is not doing all that well against the new information technology" (The New York **Times** , 2/24/2000).

The European Union and the U.S. have come to a tentative...

...sold, and U.S. companies could be prosecuted under criminal law for any lapses (Financial **Times** , 2/23/2000). This agreement is worth monitoring, since it could eventually have broader implications...

...sites at random for compliance; each violation could cost operators \$11,000 (The New York **Times** , 4/21/2000). However, COPPA was based on the FTC's 1996 privacy rules, and...

...cost of COPPA compliance at \$60,000 to \$100,000 per site (The New York **Times** , 5/12/2000, <http://www.nytimes.com/library/tech/00/05/cyber/articles/l2coppa.html>...

...been accused of using a subpoena to remove a critic's anonymity (The New York **Times** , 7/24/98). In another case, an anonymous employee claims that he was dismissed from...

...ISPs have little incentive to fight subpoenas and may not even allow their subscribers sufficient **time** or notice to do so either. As noted elsewhere, this subpoena power can also have...linked together will be" ("Stay Anonymous If You Want to Stay Unnetted," Karlin Lillington, Irish **Times** , 2/18/2000, p. 61).

When collaborative filtering and predictive modeling are performed on huge...

...the effect can really call for a new look at the question, "What is personally **identifying** information anyway?" Today marketers integrate census data with many other information sources. This is one...

...telephone conversation that her son had "bombed" in a school play, the Canadian Security Agency **identified** her as a potential terrorist (Jeffrey Rosen, "The Eroded Self," The New York **Times** , 4/30/2000).

Information professionals may well understand another problem facing data miners -- incompatible database...

...in 1950" (Saul Hansell, "So Far, Big Brother Isn't Big Business," The New York **Times** , 5/7/2000). In other words, though Web profilermay not be a big problem today...

...s nothing to prevent them from becoming a big problem tomorrow.

Privacy Versus Personalization

To **date** , advertising or sponsorship has served as the main funding source for all the "free" Internet...who continued, "If you don't want to comply, don't join" (The New York **Times** , 4/3/2000).

A number of new products and services focus on consumer privacy.
Bonnie...

...comprehensive shopping experience," adding, "...to build a relationship, it's critical to do it over **time** . We hope we have developed a level of trust and ease that only **time** can buy" ("Yang: Yahoo! Getting Personal," Matthew Broersma, ZD-Net News, 3/2/99).

Information...

...wait until you're in an accident to remember to use a seat belt every **time** you're in a car.

Information professionals can bring a lot of advantages to the...

...laws are in flux, and parts of this article may well be dated by the **time** it's published. For every calendar year, at least 7 years zoom by on the...was subject to a class-action lawsuit, the company would be tipped off to the **time** and **date** of visits by anyone searching for related key words such as a vehicle model name...cause privacy problems you can't put it in the information industry."

Perhaps it's **time** that information professionals learned about the wider privacy implications of current industry practices and joined... privacy and usage? How is the security? What assurances do you have?

* Keep up-to- **date** with new developments in technology, software, laws, etc., that affect privacy issues.

Implement Solutions

* Consider...

...free Net e-mail services when necessary.

* Use outside consultants who don't have to **identify** their clients, especially when you don't want others to know about your company's ...

13/K/18 (Item 4 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

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06235787 Supplier Number: 54285215 (USE FORMAT 7 FOR FULLTEXT)

Acrobat 4: Adobe's Bid to Make It More Than Just a Viewer. (Software Review) (Evaluation)

Walter, Mark

The Seybold Report on Internet Publishing, v3, n7, pNA(1)

March, 1999

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Newsletter; Trade

Word Count: 4737

... only for reviewing everyday office documents but also for Web sites, an application that to **date** lacks such a product.

In addition, Adobe has added two important new dimensions to the...

...can now view spreads side by side instead of just a single page at a **time** .

Navigation tabs. From the beginning, Acrobat has had bookmarks and

thumbnails as two methods of...Third-party digital signature technologies, including biometric signatures and signatures that have been verified by **certificate** authorities, may be substituted or layered on top of Acrobat's implementation through plug-ins at the API level. To **date**, Adobe's partners on digital signatures include Entrust, Verisign, PenOP, Coastek, Silanis Technology, Communications Intelligence Corp., **Digital** Applications, and **Seal** Systems.

This feature is critical to using PDF forms and documents for e-commerce applications. For purchase orders, receipts and the like to be **valid** documentation of a transaction, businesses have to be able to verify their authenticity. In many...the annotation palette. The hierarchical list shown in the palette can be sorted by type, **date**, author, or page (see photo). An alternative is to summarize them: Acrobat 4 will gather...

...the next.

The other limitation is that Acrobat's annotations have but four properties- color, **date**, icon and author. We've always felt that the product ought to provide a way...downloads, which would be very helpful for capturing a large site. It also does not **identify** broken links within the site-a feature that may not be critical but certainly would...

...PDF is to create an archive snapshot of a site at a given point in **time**. This PDF archive would put the site into a single file that can be kept

...

...for the public, developers are free to write their own applications that create it. To **date**, only a few developers, such as Cascade, have utilized that capability, but it could become...

...that bucks the market shift toward dynamic formatting on the client side. There are, however, **times** you'd like to render on the server side and keep it intact, whether to...

13/K/19 (Item 5 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

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04729793 Supplier Number: 46962697 (USE FORMAT 7 FOR FULLTEXT)

VeriSign Offers Unique Seal to Show Internet Users 'Proof of Authentication'

PR Newswire, p1210LATU033

Dec 10, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 2036

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Web Surfers able to Easily **Identify**

and Trust Sites Authenticated by VeriSign

... opportunity to promote trust online and increase authentic site recognition by displaying the Authentic Site **Seal**. All web sites with VeriSign server **Digital** IDs can sign up to participate in the Authentic Site Program and display the seal.

The seal will enable web users to easily **identify** authentic sites, access educational information about digital authentication, as well as trust that the sites have completed the designated authentication procedures with VeriSign (as outlined in the VeriSign **Certification**

Practice Statement at <http://www.verisign.com/repository/index.html>) to receive a Digital ID...

...has issued a Digital ID to the site, enabling the browser to automatically verify the **validity** of the site's digital **certificate** and encrypt the session, and 3) that the seal will only allow users to click through to additional information about the site's authenticity if the site has a VeriSign **Digital ID**.

Sites using the **seal** are able to demonstrate authenticity to their customers, as well as benefit from VeriSign's...

...the VeriSign Authentic Site Seal helps us communicate that to our customers."

The Authentic Site **Seal** is a unique **digital** graphic. It was designed using software from Net-It Now! and jDoc, an interactive document ...

...It then displays information about the site's security features, including information listed in the **certificates** and other visual cues to help users **identify** authentic web pages.

VeriSign Authentic Site Seal

"The Authentic Site Program promotes trust between users...

...seal displays our commitment to security and trust on the Internet, while at the same **time** educating users about digital authentication and the ability to use the Internet as a secure...

...intro.html, or contact VeriSign via email at authsite@VeriSign.com to receive the unique **digital seal** for display on their web sites. The Authentic Site Seal is available for free to...Bass & Company uses VeriSign Digital ID technology to control access to sensitive data and to **validate** transactions with our clients. The presence of the VeriSign Authentic Site Seal assures our clients...

...with VeriSign's Site Authentication program. With the click of their mouse they can readily **identify** and verify the security. We are pleased with the result and the feedback from our...

...and full disaster-recovery capabilities. And at the heart of the VeriSign advantage is its **Certification** Practice Statement (CPS), a comprehensive document that presents VeriSign's legal requirements for the entire digital **certification** process.

VeriSign, Inc.

VeriSign, Inc., headquartered in Mountain View, Calif., was founded in April 1995...

...a spin off from RSA Data Security. The company is the world's leading Internet **certification** authority, the trusted third party that authenticates, issues and manages Digital IDs for consumers and...

13/K/20 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

11854436 SUPPLIER NUMBER: 60035655 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Legally Binding E-Documents Move Closer To Reality -- Two Companies Ink An E-Lease, But Obstacles Block Full Acceptance Of Paperless Processes. (News Briefs)

Wilde, Candee

InformationWeek, 120

March 6, 2000

ISSN: 8750-6874

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 2438

LINE COUNT: 00201

... without paper or physical signatures is an important step for E-commerce. Using a digital- **certificate** system created by public key infrastructure vendor EOriginals Inc., the lease was created electronically, signed...

...ultimately will overcome those problems and provide strong user authentication through the use of digital **certificates**, digital signatures, and encryption.

The three major components of a public key infrastructure system are a **certificate** authority, a repository, and a registration authority. The registration authority is responsible for establishing a user's identity before instructing the **certificate** authority to create a digital **certificate**. The **certificate** authority creates a **certificate** and a public encryption key that travels with a document and can be used by...

...the signer and wasn't changed. The repository, usually a directory or database, stores digital **certificates**, **certificate** users, and **revocation** lists.

The biggest problem in adopting digitally signed E-documents is the con-fusing patchwork...

...companies that know and trust one another. "Furthermore, high-value transactions take place all the **time** over unsecured, unrecorded phone lines between trusted trading partners based on something called 'their word...

...and co-owner Lois Elkin says the psychological barriers to digital signatures are generational. "As **time** goes by, the kids who have been brought up doing everything on computers will replace the generations brought up working on paper. The generation that tells **time** with digital clocks and ties their shoes with Velcro will have more acceptance of this ...the E-document is routed to a special server called the Trusted Custodial Utility, which **validates** the signatures and adds a **date** and **time** stamp. At this point, a digital signature-a mathematical calculation of every bit in the document-is created. A digital signature is unique for every document and it **electronically seals** the document so it can't be altered without detection, even by the originator. This...

...not a legally binding document," Trotter says. The company says it works with customers to **identify** cost savings and profits resulting from its software, and charges a percentage of that number...

...s senior VP of technology.

After evaluating security measures, Ruesch "went the pure software digital **certificate** route," Szoc says. "We felt we had to go beyond the secure Internet interactions one...

...RueschLink, a secure extranet built using CyberTrust's Secure Extranets package. The package includes a **certificate** authority, Web server, directory, database, firewall, access control, and managed services. CyberTrust's system supports...

...responsibility for maintaining security by agreeing to keep passwords

secret and regulating the issuance and **revocation** of digital **certificates** . CyberTrust says it can build a PKI system for customers for \$50,000 to \$100...

...paper. "We only have 200 people at Persistence and we don't need them spending **time** searching for lost paper," she says.

To change that, Persistence is testing a Web-based...

...forwarded to a database on the back end-without the question. So, at a later **time** , how does one prove the context or what was agreed upon? The answer, Gates says...

13/K/21 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
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11687343 SUPPLIER NUMBER: 58736332 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Three Online Pharmacies Get Seal of Approval.

MECHCATIE, ELIZABETH

Family Practice News, 29, 23, 37

Dec 1, 1999

ISSN: 0300-7073

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1411 LINE COUNT: 00118

Three Online Pharmacies Get Seal of Approval.

TEXT:

Three **online** pharmacies have been given a **seal** of approval from the National Association of Boards of Pharmacy.

... by the NABP, which is in the process of reviewing 12 additional online sites. To **date** , none of the sites have been rejected.

The application costs the typical independent site with...

...to ensure confidentiality of a patient's medical record, as well as licensure compliance.

By **identifying** online pharmacies that are appropriately licensed and qualified to practice pharmacy, "the VIPPS program will...

...chairman and a registered pharmacist Kevin Kinkade said at a press conference, where the VIPPS **certifications** were announced.

Carmen Catizone, who is the executive director and secretary of the NABP, located...

...physicians to consult the NABP Web site in order to learn more about the VIPPS **certification** program. If their patients want to fill prescriptions through an Internet pharmacy and you're...

...familiar with the site, you need to make sure the site looks credible and has **valid** licensure, just as you would before calling any unfamiliar pharmacy, Ms. Catizone said in an...

...to buy a drug. Any site that offers to prescribe a drug for the first **time** without a physical examination is another red flag.

The FDA plans to add a separate...

...treatment alternatives and determine the best course of treatment."

PBMs and Online Pharmacies

All three **online** pharmacies awarded the VIPPS **seal** of approval

are linked to pharmacy benefits management companies.

These partnerships are becoming more common...this site every week, according to a statement issued by the company after the VIPPS **certifications** were announced.

Initially, PBMs were slow to hook up with online pharmacies, in part because...

...service pharmacies, which many companies already had in place.

As more online pharmacies obtain VIPPS **certification**, more PBMs will see them as legitimate, he predicted in an interview.

For More Information...

13/K/22 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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11489626 SUPPLIER NUMBER: 57436004 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The Hard Work Of Privacy Policies.(Industry Trend or Event)

Murphy, Kathleen

Internet World, 5, 32, 39

Nov 1, 1999

ISSN: 1097-8291 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1674 LINE COUNT: 00140

...ABSTRACT: data to third parties cause consumers to become incensed. Developing a privacy policy can be **time**-consuming because the data Web sites gather is often scattered. Privacy advocates say a site...

... business units found that some were collecting consumers' Social Security numbers as a means of **identification**.

"We don't want to be in the business of collecting Social Security numbers," says...

...s 30-member task force on privacy. Therefore, McGraw-Hill changed the way consumers are **identified**, and it adopted a policy that prohibits collection of information that doesn't serve a...

...project got more complicated with every piece of information each business unit contributed.

But the **time**-consuming process was made easier by the company's proactive approach. "The biggest thing we...

...will become more important in the coming year. The Federal Trade Commission, for the third **time**, plans to review the privacy policies at Web sites, taking into consideration how strong each...

...the Lycos network. Tripod worked with TRUSTe, a privacy seal program that provides third-party **certification**. The TRUSTe seal added some credibility to Tripod's policy and ensured that more scrutiny...

...can be a real chore at large companies that have been in business a long **time**, especially when it involves many divisions. Some companies have adopted a taskforce approach and have...different results.

Lexis-Nexis is in the process of qualifying for the Better Business Bureau **Online privacy seal** program.

A remaining obstacle is to ensure that Lexis-Nexis users have access to any...

...parent to a toll-free number; or an e-mail accompanied by the parent's

valid digital signature.

"Verifiable parental consent is not something that is good business. It's the...

...seal.

Technologies such as CyberSmart, a tool that provides authentication for parental consent through digital **certificates**, hold the promise of solving the dilemma. But Jim Teicher, founder of CyberSmart (and also...

13/K/23 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
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10824175 SUPPLIER NUMBER: 53911974 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Hands OFF!

B Gooley, Toby

Logistics Management Distribution Report, 38(1)

Feb 28, 1999

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2107 LINE COUNT: 00173

... The changing nature of cargo theft means this problem will be with us for some **time** to come. But there's a lot shippers can do to protect their products--and...

...as soon as they start work and give them the keys to the palace.

* Minimize **identifying** marks on packaging. If you do nothing else, get rid of packaging that invites thieves...

...Bernes tells of one client that had suffered frequent losses and finally agreed to eliminate **identifying** marks on its packaging. That paid off when thieves who robbed a freight forwarder's...

...access to cargo, documents, and computers. Badolato recommends using devices like electronic security cards to **validate** and record entry into cargo and document processing areas. Make sure that only people with...

...audits, he says.

* Screen truckers and documents before handing over freight. All drivers should present **valid identification** such as a Commercial Drivers License (CDL) as well as a vehicle-registration **certificate** before they are given a gate pass to pick up freight. The gate pass should ...

...seals, including holographic materials that are impossible for thieves to reproduce, have gained popularity. Reusable **electronic seals** record the **time** and **date** a load was sealed and when doors were opened. Roberts' company now is developing ...security experts. Work with carriers, warehouses, and other service vendors to minimize the amount of **time** shipments and vehicles are waiting on docks and in parking lots. If driving straight through...

...cargo theft. Not only do you have to pay to replace the product and spend **time** with police, prosecutors, and the media, but there's also a loss of customer goodwill...

...This 147-page book covers such topics as how to develop a cargo-security program, **identification** and control of personnel, protecting cargo in

transit, and more. Checklists help readers assess the...

13/K/24 (Item 5 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
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09961072 SUPPLIER NUMBER: 20097874 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Beverage World 1998 Buyers' Guide.(Buyers Guide)

Beverage World, v116, n1649, p97(58)

Dec 15, 1997

DOCUMENT TYPE: Buyers Guide ISSN: 0098-2318 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 51624 LINE COUNT: 04794

... Dixie-Narco Inc. Scan Coin, Inc. The Vendo Company

COIN SORTERS

Scan Coin, Inc.

COIN **VALIDATORS**

Ardac Inc. Conlux USA Corporation Imonex Mars Electronics

International

COIN WRAPPERS-PLASTIC, PAPER

Scan Coin...

...Detection Inc. Uni-Pak Corp. Valu Guide Conveyor Components Van Pak Corporation

COMMUNICATIONS, INTERCOMS

Real **Time** Data

COMPOUND LINERS

White Cap, Inc.

COMPRESSOR ACCESSORIES

Ateliers Francois S.A. The ...Cash Code Coin Acceptors, Inc. Glenview Systems, Inc. Integrated Barcode Solutions Mars Electronics International

Real **Time** Data Skywire Corporation

DEAERATORS

AMBEC APV Fluid Handling America APV Heat Transfer Technologies Custom Food...

...Group Company

DOCK PLATFORMS, LEVELERS

Magline, Inc.

DOCK SEALS, SHELTERS

Marschall Warehouse Co.

DOLLAR BILL **VALIDATORS**

Cash Code Coin Acceptors, Inc. Conlux USA Corporation Dixie-Narco Inc. Mars Electronics International Rowe...It, Inc. Union Standard Equipment Co.

Walle Corporation

FILM, SHRINK LABELS

AET Films American Fuji **Seal**, Inc. CL & D **Digital** Inc. Lawson Mardon Packaging USA Inc. Mobil Chemical Co. Seal-It, Inc. Sonoco Engraph

Union...of Udo NA) Combined Computer Resources, Inc. Crown Equipment

Corporation DIGATEX, Inc. Prototype Incorporated Real **Time** Data

FLOOR DRAINS

Composite Structures Int'l. Inc. Drehmann Paving & Flooring Co.

FLOORING - ANTI-SKID...

...General Motors Corp.

GASKETS

Terriss-Consolidated Ind.

GAUGE PROTECTOR (DISPENSING EQUIPMENT)

Gorman Supply, Inc.

GIFT CERTIFICATES

Mobil GO Card, Stored Value Marketing

GLASS BOTTLE INSPECTION

AGR International, Inc. Banner Engineering Corp...ITW Company Marsh
Company New Jersey Machine Inc. Videojet Systems Int'l., Inc.

INK-JET IDENTIFICATION SYSTEMS

Automation Products, Inc. Domino Amjet, Inc. Imaging Technologies
International Image Ink Jet Printing Corp...A., Inc. Sonoco Engraph Spear,
Inc. Trine Labelling Systems

LABELS

Advertising Art Studios American Fuji Seal, Inc. Champion
International Corporation CL & D Digital Inc. The Creative Label Company
The Excellence Group, Inc. Gamse Lithographing Hammer Lithographic ITW Auto
...

...Osmonics, Inc. Ozone Research/Osmonics Sparkler Filters, Inc. Western
Filter/Osmonics Wilkens-Anderson Company

LASER IDENTIFICATION SYSTEMS

Domino Amjet, Inc. Integrated Barcode Solutions Krones, Inc.
Lasertechnics Marking Corp. Lumonics Inc. Union...Great Lakes Software of
Mich., Inc. JBA International J B Systems. Inc. Manugistics, Inc. Real
Time Data Roadnet Technologies, Inc., A UPS Logistics Group Company
ROADSHOW International, Inc. Skywire Corporation Thinline...Statco Eng. &
Fab., Inc. Tetra Pak Inc. Tuchenhausen North America, Inc.

SLEEVE LABELS

American Fuji Seal, Inc. CL & D Digital Inc. ITW Auto-Sleeve
Lawson Mardon Packaging USA Inc. Lawson Mardon Packaging, Inc. Seal-It...
Resources, Inc. DIGATEX, Inc. Fujitsu-ICL Systems, Inc. Garman Routing
Systems, Inc. Norand Corporation Real **Time** Data Roadnet Technologies,
Inc., A UPS Logistics Group Company Skywire Corporation

VENDING TRAILERS

Fibre Core...Dr. Eastlake, OH 44095 Tel: (440) 946-3000 Fax: (440)
946-9829 Sharon Taylor * Coin **Validators** * Coin, Currency Changers
Arde Barinco, Inc 500 Walnut Street Norwood, NJ 07648 Tel: (800) 909
...Evaporators * Freeze-concentration * Hydrometers * Ink-jet Bar Coding
Systems * Ink-jet Coding Systems * Ink-jet **Identification** Systems * Label
Applicators Level Instrumentation * Level Measurement & Control * Liquid
Level Gauges, Controls * Liquid Sugar Systems...905) 669-2633 Steve Kinder
* Coin Conversions * Coin, Currency Changers * Data Retrieval Systems *
Dollar Bill **Validators**

Caterpillar Inc. P.O. Box 610 Mossville, IL 61552 Tel: (309) 578-4529
Tom Wickenhauser...725-7198 James C. Douglass * Coin Conversions * Coin,
Currency Changers * Data Retrieval Systems * Dollar Bill **Validators** *
Vending Machines (Bottle, Can, Carton)

CokerGolley Limited 127 Peachtree St., Ste. 900 Atlanta, GA 30303...

...314) 937-0033 Tel: (800) 792-0101 Fax: (314) 937-5522 Paul J. McGahan *
Coin **Validators** * Coin, Currency Changers * Dollar Bill **Validators**

Consumers Packaging Inc. 777 Kipling Ave. Etobicoke, Ontario, Canada
M8Z 5Z4 Tel: (416) 232-3203...803) 266-5150 Douglas C. Huffer * Coin
Counters * Coin, Currency Changers * Currency Counters * Dollar Bill
Validators * Locks Locks, High Security * Locks, Inner Cylinder * Parts,
Mechanical Supplies * Soft Drink, Bulk Vending Machines...

...Equipment * Coding, Marking Supplies * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Label Printers

* Laser **Identification** Systems * Non-contact Printers

Douglas Machine, LLC 3404 Iowa Street Alexandria, MN 56308 Tel: (320)
...Equipment * Coding, Marking Supplies * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Non-contact
Printers

Imaje Ink Jet Printing Corp. 1650 Airport Road Kennesaw, GA30144 Tel
...

...Printers * Coding, Marking Equipment * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Non-contact
Printers

IMI Cornelius Inc. One Cornelius Place Anoka, MN 55303 Tel: (800...

...800) 446-2719 Tel: (281) 391-4704 Fax: (281) 391-4239 P.L. Bruner * Coin
Validators

Industrial Dynamics Co., Ltd. 2927 Lomita Boulevard Torrance, CA 90505
Tel: (310) 325-5633 Fax...

...274-2109 Fax: (916) 273-4725 Ed Feuerherm * Bar Code Scanners * Data
Retrieval Systems * Laser **Identification** Systems * Route Accounting
Systems * Software Development

Intelligent Computer Systems, Inc. 2101 Embassy Dr. Lancaster, PA...
Bottle Inspection * Inspection Equipment (Production Equipment) *
Inspection Equipment (Quality Control Equipment) * Label Applicators *
Labelers * Laser **Identification** Systems * Mixing Equipment * On-line Brix
Analyzers * On-line Carbonation Analyzer * On-line Monitors * Pallet...
87113 Tel: (505) 822-1123 Fax: (505) 821-2213 Rich Bronge * Coding, Marking
Equipment * Laser **Identification** Systems * Non-contact Printers

Laub/Hunt Packaging Systems 13547 Excelsior Drive Norwalk, CA 90650
Tel...

...Sealers * Coding, Marking Equipment * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems

Lowen Color Graphics P.O. Box 1528 Hutchinson, KS 67504 Tel: (800)
835-2365...

...592-1460 Fax: (613) 592-5706 R. Verre * Coding, Marking Equipment *
Coding, Marking Supplies * Laser **Identification** Systems

Lynch Machinery 601 Independent St. Bainbridge, GA 31717 Tel: (912)
248-2345 Fax: (912)...2500 Tel: (800) 345-8215 Fax: (610) 430-2694 Grant
Reid * Cash Card Systems * Coin **Validators** * Coin, Currency Changers *
Computer Systems * Data Retrieval Systems * Dollar Bill **Validators** *
Route Accounting Systems * Salt Water Divertor

Marsh Company 707 East "B" Street Belleville, IL 62222...

...Equipment * Coding, Marking Supplies * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Non-contact
Printers * Stencil Machines * Tape Equipment, Systems

Maselli Measurements, Inc. 7746 Lorraine Avenue...Tel: (800) 321 -8646
Tel: (708) 236-1790 Fax: (708) 236-1791 Judi Corbett * Gift **Certificates**
* Incentive Marketing Services

MOCO Thermal Industries 1 Oven Place Romulus, MI 48174 Tel: (800) 421
...Stations * Coding, Marking Equipment * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Label
Applicators * Label Dispensers * Labelers

AC Nielsen the Americas 150 N. Martingale Rd. Schaumburg...

...Coating Equipment * Can End Washer, Dryer * Cap, Crown Compound

Application Equipment * Coding, Marking Equipment * Inkjet **Identification**
Systems * Pumps (Processing Equipment) * Spray Nozzles

NORIT Americas Inc. 1050 Crown Pointe Parkway Suite 1500...608)
782-8130 Fax: (608) 784-5115 Jennifer Hamilton * Computer Systems * Route
Accounting Systems

Real **Time** Data 400 112th Avenue, NE, Ste. 400 Bellevue, WA 98004
Tel: (800) 546-5783 Tel...Tel: (616) 243-3633 Fax: (616) 243-9414 Joel
Friedman * Coin, Currency Changers * Dollar Bill **Validators** * Vending
Machines (Full Line)

Royal Vendors, Inc. 201 Industrial Boulevard Kearneysville, WV 25430
Tel: (800)...Coatings & Linings * Film Shrink * Film Shrink Labels * Film
Stretch * Form, Fill, Seal Machines * Labels * Laser **Identification**
Systems * Multi-pack Equipment * Pet Bottling Equipment * Plastic Bottle
Equipment * Plastic Sealing Equipment * Pouch Filling...Alarms * Coin
Counters * Coin Wrappers-Plastic, Paper * Compressor Accessories *
Compressors * Compressors, Refrigeration (Vending) * Dollar Bill
Validators * Hand Trucks, Carts * Liftgates * Locks * Locks, Cam * Locks,
High Security * Locks, Inner Cylinder * Lubricants * Padlocks...

...216) 432-1800 Tel: (800) 321-2311 Fax: (216) 432-2786 Greg Garson *
Dollar Bill **Validators** * Hand Trucks, Carts * Parts, Mechanical Supplies
* Vending Decals, Signs * Vending Machine Refurbishing
Vendors Repair Service...

...Equipment * Coding, Marking Supplies * Ink-jet Bar Coding Systems *
Ink-jet Coding Systems * Ink-jet **Identification** Systems * Laser
Identification Systems * Non-contact Printers

Vin Service Via G. Falcone 26/34 Zanica (Bergamo), Italy 24050...

13/K/25 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
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09721341 SUPPLIER NUMBER: 19746945 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Digital Notary to be Used for Electronic Court Filing.

Business Wire, p9101080

Sep 10, 1997

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 771 LINE COUNT: 00070

LAWPlus To Use Surety's Technology To **Time** -Stamp And **Seal**
Contents

Of **Electronically** Filed Legal Documents Against Tampering

LAWPlus, Inc., the nation's leading provider of electronic document
delivery to the legal community, is expanding its services to include
electronic data **validation**. LAWPlus will use Surety Technologies' Digital
Notary(TM) Record Integrity Service to authenticate the content, data and
time of legal documents filed electronically through LAWPlus.

LAWPlus provides electronic document filing and service for...

...electronic filing offers improved efficiency and enhanced productivity,
resulting in tangible savings in court personnel **time**, document storage
and administrative costs.

"We are committed to providing our clients with the best...

...accuracy of the document. With Surety's technology ranking as the gold
standard for combined **time**, **date** and content authentication, our
clients can be absolutely confident that any tampering with their files...

...will offer Surety's Digital Notary service to all of its current subscribers. The service **seals electronic** files to provide an irrefutable record of each files content, **date** and **time** . The technology creates a secure digital audit trail that makes it possible to detect changes...

...in any way without being discovered.

When using the service, attorneys receive a printable electronic **certificate** for each document filed. **Validation** of a given document's content and **time** -stamp can be performed by clicking on a "**validate**" button on the LAWPlus subscriber's computer.

"With numerous courts already using the LAWPlus service...

...legal settings, and the Digital Notary service's ability to combine that with a secure **time** and **date** stamp addresses this need in a way that no other service can do."

Surety's...

...a unique fingerprint for each document or record, then combines that fingerprint with all other **certification** requests to create a complex digital road map that can be used to detect any changes made to the record after **certification** . An electronic **certificate** is issued for each record and used to **validate** documents in question. Each **certificate** also contains a Surety SureID(TM) number, a cryptographically secure **identifying** serial number for tracking and control of a given document.

LAWPlus, Inc. is the nation...

...the American Bar Association's Digital Signature Guidelines, which call for record integrity technology with **date** and **time** authentication. For more information on Surety Technologies, call 973/360-3905 or visit www.surety...

13/K/26 (Item 7 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
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08848770 SUPPLIER NUMBER: 18544837

Electronic checks - a detailed preview.

Doggett, John

Journal of Retail Banking Services, v18, n2, p1(10)

Summer, 1996

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4970 LINE COUNT: 00418

... meet the payment and settlement needs of individuals and businesses. Payment instruments have evolved over **time** to address different trading requirements or preferences found in these common business relationships:

* individual to...

...Once opened, the PC card generated an electronic check, filled in the payee, amount, and **date** information, and displayed an image representation of the check on the PC screen. The digital signature as well as two electronic **certificates** for the account and issuing bank - Chemical (now Chase) Bank - were added to the electronic...

...PC Gifts and Flowers.

PC Gifts and Flowers received the check and order form and **validated** the check signer's digital signature through the use of the customer's public key. In addition, the account number and Chemical Bank's **certificate** were similarly **validated**. With the check **validated**, the merchant proceeded to post his accounting system and endorse the check with his signature and bank **certificates** of his bank, the Bank of Boston.

When this was completed, PC Gifts and Flowers...

...slip to the Bank of Boston. The Bank of Boston received the e-mail package, **validated** the check for both payer and payee, and, with the instrument authenticated, wrapped the check...

...then appeared as an electronic ACH transaction on the FSTC's account. Chemical Bank also **validated** the check, contained within the ACH transaction, to assure that the check was authentically signed...

...paper check process to take full advantage of the electronic medium, while at the same **time** seeking to address many of the deficiencies of the paper check.

The need for such...

...tamper-proof electronic document for the check, digital signatures for signing and endorsing, and digital **certificates** to authenticate the payer, the payer's ...the payer's bank

* enhance security at each step of the transaction by enabling automatic **validation** of the electronic signature by each party (payee and banks)

* facilitate integration with electronic ordering...both electronic checks and their checkbooks can be authenticated by the use of public key **certificates** at any point in the settlement cycle by a merchant or a bank. Deposit slips...

...digital signature keys are stored in secure hardware devices, and through appropriate controls over the **validity** of electronic check **certificates**. Alteration will be prevented through the application of digital signatures to the electronic check, and...

...prevent and this will be addressed in several ways. First, electronic checks will require a **date**, and will be designed to **expire** more rapidly than paper checks. Second, electronic check **certificates** will also **expire**, preventing their use after a given **time** period. Third, the issuer bank will keep an archive of electronic checks that have been...

...that an electronic checkbook is compromised - either lost, stolen, or repudiated by a customer - the **certificates** for that checkbook can be **revoked**. The electronic check project will **identify** the conditions and requirements for maintaining and using **certificate revocation** lists as part of the cryptographic infrastructure required to support electronic commerce activities.

Ensuring the...

...to authenticate the customer and account, electronic check document and issuing bank, and to securely **seal** the **electronic** check, enabling the use of public networks for transportation.

The electronic check concept makes use...

...a tamper-resistant PC card, which contains a mechanism to generate or store unique check **identifiers**, to maintain a check register, and to

calculate and verify digital signatures and **certificates** using public key cryptography. Alternatively, the electronic checkbook may be implemented in an ISO-format...signed, endorsed and processed. Cryptographic signatures are also used to create "letters of reference" (cryptographic **certificates**) that allow a public signature verification key to be used to verify the signer's...

...the establishment of trust by enclosing with the signed check a "letter of reference" (cryptographic **certificate**) stating the signer's name, account number, and signer's public signature verification key, all signed by the bank holding the account. Similarly, a second "letter of reference" (**certificate**) can state the bank's name, bank details, and the bank's public signature verification...

...knowing the Federal Reserve's public signature verification key can sequentially verify the bank's **certificate**, the account **certificate**, and then the signature on the electronic check.

Tamper. resistant signature cards or other hardware...

...to forge checks, then electronic checks will not be accepted, especially in applications where other **identification** is not present, such as electronic mail ordering, electronic shopping, and paying for information services...

...users and organizations will assume the roles of both payer and payee, but at different **times**; thus, these two functions will be considered separately.

Beneath the modules implementing each of the...businesses, and financial institutions. The use of digital signatures, hardware-based signing, and banks as **certification** agents, will make the electronic check trusted and secure.

Open integration with existing interbank payments...

...public networks with the existing financial payments infrastructure.

Authentication of electronic checks. Using public-key **certificates** enables electronic check authentication by the payee, and payee's and payer's banks, a feature that is not available today for paper checks. Digital signatures can be **validated** automatically, while today's paper checks require a manual process, which can only be done...

...the century. But the pace of technological change seems to have picked up in recent **times** - so any forecast will almost certainly be off the mark!

John Doggett is the Director...

13/K/27 (Item 8 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
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08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Plastics technology: manufacturing handbook & buyers' guide 1995/96. (Buyers Guide)
Plastics Technology, v41, n8, pCOV(941)
August, 1995
DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 174436 LINE COUNT: 15187

... 66 in. wide complement traditional customized offerings at cost savings of 10-20%, and delivery **times** four to six weeks shorter than for custom units.

Twin-screw compounding extruders are corotating...hr. The same unit can run materials of a wide melt-flow range. Short residence **time** and energy savings relative to a standard single-screw extruder are claimed.

ITALIAN TRADE COMMISSION...long continuous mixer). Downstream of the rotor section is a "throttling valve" to control dwell **time** and specific energy input. Suitable for compounding a wider range of engineering thermoplastics without the...changers and integrated gear-pump/screen-changer systems, which reduce equipment length and melt residence **time**.

TECHLINE EXTRUSION SYSTEMS

Complete extrusion systems for blown film (widths of 10 to 160 in... approaching those in the machine direction. Optifil P2 automatic die can help reduce start-up **times** and raw-material consumption, while manufacturing high-quality films with increased flatness and minimal curvature...to be easy to start and operate and energy-efficient. Standard model and low-residence- **time** model for moisture-sensitive materials such as nylon.

Also underwater pelletizers from 6600 to 55...

...length by means of adjustable knives. Bulk density of original fluff increases four to eight **times**. Pellets are 1/4 in. diam. and 1/2 to 3/4 in. long. Capacities...with 5-15 degrees| inclination from horizontal or vertical. Strands are self-starting, and cooling **time** can be adjusted for hard-to-cool polymers. Horizontal pelletizer comes with fully automatic start...

...steel blades. All models feature a four-sided bed knife, which can be turned four **times** before requiring replacement. Other features are d-c drives from 1 1/2 to 5...headliners, Compotec for SRIM, Rotoflex for flexible foam, Rimmodule for RRIM and polyurea, and Zero- **Time** Change for appliance cabinets. Also laminators and drum units.

CONSTRUCTION TECHNOLOGY DIV. INVESTMENT HOLDINGS GROUP...

...F. Heavy-duty hydraulic power package. Allen-Bradley microprocessor controls machine functions and multiple dispensing- **time** programs. Options include three-port, right-angle mix heads; SPC communications; dual-head switching station...allow for changes in viscosity. Multishot timer allows user to preprogram up to 20 shot **times** in desired sequence. Total **Time** Accumulator determines total amount of foam dispensed to ensure better inventory control and planning. Optional...of screen rotation, variable pressure drop, variable glass and binder delivery rates, and adjustable cure **times** and temperatures.

AUTOMATION DYNAMICS

...uses shop air and can be modified to allow spraying different colors at the same **time**.

For granite effect, model 205-1000 Grani-Tec gelcoat system can handle up to 60...

...to unload. Makes parts from 40 x 32 in. to 112 x 80 in. Cycle **times** of 45-90 sec, including very fast transfer from heating to clamping station.

* High-speed...

...handles large molds. Single- or double-shuttle design, total access to all platens, fast cycle **time**, control of position, variable tonnage ...

forces.

* Variable-output closed-loop metering unit rapidly fills large parts to permit fast cure **times** . Closed-loop control of variable output for rapid filling of parts while controlling injection pressures...

...and Computrac computer control with color CRT display. Records temperature, clamp pressure, pulling speed, run **time** , purge cycle, length of cut, length of pull, winding speed (optional), and resin formulas. Allen ...mold making. Gun dispenses from paper or plastic cups, which can be discarded to avoid **time** -consuming clean-up.

PULTREX LTD.

Pultrusion machines range from 1-ton pulling load and 7...

...model 671, which increases speeds on pultrusion lines; model L-200, which reduces press cycle **times** and improves surface characteristics in SMC molding (Charges to 80 lb can be preheated in...technology.

SANDVIK PROCESS SYSTEMS, INC.

Double-belt presses convey resins and reinforcements through a controlled **time** /temperature/pressure cycle to produce continuous sheet products (fiberglass-reinforced thermoplastic and thermoset laminates, composites, and foams). Products can be up to 56 in. wide. Cure **times** to 10 min., cure temperatures to 500 F, and line speeds to 90 ft/min...Ribbon mixer for heavy-duty mixing has counterflow action for thorough mixing in a short **time** . Available with heating/cooling jacket.

Counterrotating twin-agitator system gives intensive action for blending viscous...

...impact action. May be jacketed for heating and cooling. Paddles are adjustable to vary retention **time** .

Nonintensive ribbon blenders for dry and dry/liquid blending have capacities of 2 to 680...Screwless extruder uses elastic-energy storage characteristics of polymer melts for mixing and extrusion. Residence **time** is said to be short (typically 20-31 sec), and amount of shear applied to ...

...for over 8000 lb/hr. Mixer/cooler combinations have increased cooling area for reduced cycle **times** . (See ad p. 152.)

DRAISWERKE, INC.

Drais Perl ball mills finely disperse and homogenize high...high temperatures common to kneading-disk machines. Design of mixing section ensures a longer residence **time** for complete and thorough mixing. Line is available in output from 88 to 3960 lb...

...capacities from 25 to over 10,000 gal will mix any viscosity in a short **time** . Larger units with 2-ft and longer shafts. Propellers available in either turbine, flat, curved...

...versatility of batch operations. Formulator combines multiple steps in materials handling and blending to reduce **time** , labor, and worker exposure. Full laboratory for process development and product testing.

GUSMER DIV. OF...wall and bottom mixing tool. It produces a vortex flow pattern to ensure short cycle **time** and homogeneous blend. For easy cleaning, the mixing tool is keyed on the shaft but...

...is dumped into the mixer, correct amount of additives is precisely metered at the same **time** . Menu-driven microprocessor control and RS485 serial port for communications available.

The 400 series accumulative...arm and rotating screw element that follows the cone wall. Reported advantages include reduced mixing **times** ,

high mixing accuracy, and reduced power consumption. Nauta mixers for dry solids, pastes, and viscous...plus low-intensity mix action to help maintain batch uniformity. Special intensifying attachments reduce mixing time .

High-intensity continuous mixers continuously blend, coat, agglomerate, and homogenize powders, solid/liquid mixes, slurries...
...Internal agitator can use paddles for mixing and better clean-out; pins for increased residence time and mixing intensity; or combinations of both. Drives have multiple v-belt drive for high...the LCM. Downstream from the mixing zone is a hydraulic throttle valve, which controls dwell time and specific energy input. With this control flexibility, a wide range of polymers and engineering...wet and dry materials before extrusion or other processing steps in order to reduce preblending time and improve final blends.

Mill features low rpm, centrifugal acceleration, vortex flow pattern, and 360...

...mixing tools, are easy to clean and capable of short cycles. Productivity is typically three times that of fixed-bowl mixers. Tip speeds are infinitely variable and equivalent to shaft speeds...dry, liquid, or emulsion polymers. It can be programmed for dosing and dilution rates, dwell time , energy amount, and energy distribution over time . Automation of system is said to eliminate costly and messy batching.

TAH INDUSTRIES, INC.

"Apple...repair services.

APAC INDUSTRIAL CO. LTD.

Molds from Hong Kong reportedly save tooling cost and time . Mold manufacturing, design services, q-c, and mold testing. Engineering drawings and progress reports can...handle multimold programs. Hot-runner, runnerless, and unscrewing molds. Precision grinding, milling, CNC machining and validation , CAD/CAM, deep-hole drilling, duplicating, and EDM. Molds for insert and structural-foam molding...

...and two-color types for thermoplastics and thermosets.

KELLEMS & COE TOOL CORP.

Specializes in on- time delivery of molds for thermoplastics and thermosets. Short-run tooling, in-house product development, mold...molds. Automatic unscrewing, stripper-plate, and triple-plate molds; positive-return ejection, cam action, shuttle times , and runnerless designs. Design, construction, and tryout for both standard and runnerless applications. Licensed to...

...engraving, model making, and duplicating.

MINCO TOOL & MOLD INC.

Product design, mold design, mold building, validation of tooling, molding, and secondary operations, including assembly. Unigraphics CAD/CAM system. Industries served include...pins, leader pins and bushings, angle pins, sprue bushings, and support columns. Special items like date plugs, air-poppet valves, taper locks, side and top locks, long-lead locks, and extension...

...in molds for short and medium runs for all engineering thermoplastics, including PEEK. Reduced lead times and costs achieved with CAD/CAM and standard flames. Fourteen molding machines to 300 tons...

...INC.

Makes prototype injection molds using a spray-metal process to reduce costs and manufacturing time .

PUGET CORP. PLASTIC PRODUCTS DIV.

Mold design, manufacturing, testing, production molding, product development, and mold...fine detail, or corrosion resistance. Cast-steel molds are said to cost less, take less **time** to deliver, and last longer than tooling made on conventional duplicating machines.

SCHOTTLI USA

Swiss...and ultra-precision EDM. Maintains engineering database to manufacture spares and replacement parts at any **time** during the life of a mold. Molds sampled in-house. Moldmakers trained in SPC.

TECHNI...

...files.

TOMKEN TOOL & ENGINEERING, INC.

Offers turnkey packages with in-house design, molds, and complete **validation** of parts. Mold-building specialties include encapsulation and insert molding for shuttle-table or rotary...

...specifically for caps and closures. High-volume applications where consistent part quality and fast cycle **times** are required. Tool designs include strip (bump-off), un-screwing, collapsing-core, tamper-evident, child...INC.

Prototype injection and blow molds from spray-metal process that reduces cost and manufacturing **time**.

R&D TOOL AND ENGINEERING, INC.

Blow molds of various kinds with complete services from...

...and Protherm beryllium-copper alloys reportedly improve performance of injection molds. Benefits include reduced cycle **time** and better dimensional control, based on rapid and more uniform removal of heat from the...sleeves.

Patented products include core pins and high-conductivity, copper-alloy core pins for cycle- **time** reductions and part-quality improvements.

Sprue bushings, copper alloys, and stainless sprue bushing aid in...

...zero-crossover power drive that delivers smooth, continuous a-c power, which reportedly improves response **time**, reduces thermal fatigue and prolongs power life. (See ad p. 264.)

BARBER-COLMAN CO. INDUSTRIAL is measured 80 **times** /sec and output is updated 20 **times** /sec.

Line-voltage-compensated output changes from AutoTune PID to manual percent control at push...

...hand-held programming device plugs into any control cabinet and can be removed at any **time**. It can change setpoints, bake **time**, and PID parameters.

DIEMOULD SERVICE CO. (CANADA) LTD.

Supplies Heatlock sprue bushings, torpedoes, and manifolds...other process disturbances, thereby minimizing temperature cycling. Added advantage is said to be potential cycle- **time** reductions through lower setpoint temperature without risk of gate freeze-off.

IMS CO.

Closed-loop temperature-control modules rated at 15 amps and 120 or 240 v with **time**-proportioned power, automatic softstart, and digital display. Standard housings have 1 to 12 zones. Also...30 amps/zone (40 amps optional). Data storage for up to 10 mold setups, full- **time** display of all zone operating parameters, RS232/484 serial output port, and optional SPC monitoring...link, which comes standard.

Data in ControlView can be viewed on SPC charts in real **time**, saved

for historical analysis, and mathematically manipulated for alarm checking, process changes, machine status, production...

...D., wall thickness, ovality, and concentricity.

Provides output signals to process and handling controls, real- time displays, statistical analysis and display of process and production data, printed reports and computer files...

...report designer creates textual and graphical customized reports. Both systems monitor machines and provide real- time and historical information on machine status. Alarms signify need for corrective action.

Bi-directional communication...a mainframe.

RILES & ASSOCIATES

AIM supervisory and process-monitoring system provides data management and real- time supervisory control. Graphical user interface provides trend plots, SPC and attribute charts, histograms, pareto diagrams...

...open database connectivity (ODBC) software.

T.G. BRANDEN CORP.

Shotscope S9000 plantwide system provides real- time monitoring of injection molding. High-resolution CRTs at each press provide simultaneous displays of shot profiles of position, velocity, and pressures. SPC data (trend/run time, X-bar and R, histogram and scatter diagrams), as well as production data are available...

...allow easy entry of scrap, downtime, material lot numbers, etc.

Parameter data are saved, including date and time for every shot from each press. SQC module tracks measurement parameters and allows correlation of process and measurement parameters. Real- time Job Scheduler with color-coded Gantt chart display provides automatic update of jobs in progress...

...1000, 1500, 2000, and 3000 systems monitor basic injection molding production variables such as cycle times and downtime, as well as complex process variables. Systems monitor in real time a range of selected analog and digital process points such as injection pressures, zone pressures...

...PLCs and allow alternative methods of input from machines without PLCs.

Data acquired in real time to determine process trends, real- time status, and production quality for each machine and for the plant as a whole. Status...

...to each machine in the network. Process data are correlated with part-quality data to identify, predict, and prevent defective production.

Systems provide real- time SPC/SQC capability on as many production or process variables as required. Upper end of...

...standard 386 and 486 PCs in stand-alone or network versions. WinSPC RealTime offers real- time access to process-control charts and automatically signals when problems occur. WinSPC Gaging collects SPC...at multiple work centers.

EPOS CORP.

EPM series integrates hardware and software for complete real- time production and engineering monitoring, including SPC and SQC. Machine data-acquisition units (IMACs) are provided...

...analysis.

D.L. HILLER & ASSOCIATES

Factory Data Manager provides a factory network to collect and **validate** data by sensors and programmable controllers. At base level, it is a labor data-collection...

...indirect plant labor recording, quality-control data entry, material movement, job and employee status, and **time** and attendance are standard. System supports a factory network of portables and fixed micro-terminals... control and monitor manufacturing, distribution, and accounting systems.

INTRAC SYSTEMS, INC.

Molders Shop Automation real- **time** process and production monitoring system for injection molders, extruders, and blow molders. One PC can...

...Latest version includes functions for monitoring machine utilization, productivity, and efficiency; scheduling based on process **time** for accurate shop calendars; project management for tracking costs of building a mold; and Gantt...

...alone PC or a network like Novell.

MATTEC CORP.

ProHelp process quality control and real- **time** production monitoring system includes functions for barcoding and parts traceability, SPC/SQC, production reports, scrap...

...used to show status of all production machines. Machines running outside standard values for cycle **time**, temperatures, or other process variables activate alarms for corrective action.

SPC software collects samples of...

...collection, barcode design and printing, finite scheduling, labor tracking, MRP interface, RF area data collection, **time** and attendance, SPC, PLC interface, process graphics, preventive maintenance, and sensor-based real- **time** production monitoring. Inventory control and lot tracking are in development.

Many of the application groups...

...any molding machine and are networkable to facilitate a step-to-step approach to real- **time** data collection and SQC/SPC systems.

MDT-01, the basic and least expensive system, is a displayless multifunctional data collector that tracks cycle **time**, machine rate, dwell/duration **time**, shift averages, setup **time**, downtime, production, and reject totals.

MDT-02 adds to the basic ...third-party MRP system and also provides on-line job-end forecasting that uses real- **time** production data. Preventive Maintenance scheduler tracks run **time** and number of cycles on molds and machines, and flags those due for preventive maintenance...

...SQC package features histogram and descriptive statistics, pareto analysis, 13 control charts, ANOVA, key-variable **identification**, gauge R&R, trend analysis, multiple regression, and autocorrelation.

SPC Direct real- **time**, on-line SPC monitoring and analysis package features database functionality, corrective actions, alarming, 128-input... to-use operator interface. Package can easily tie into all type of extruders for real- **time** monitoring of temperatures, beta gauges, chill rolls, melt pressures, and speed for correlation of process...

...nonconformance tracking, product traceability through raw materials, user-definable SPC reporting and display of real- **time** data, **certificates**

of analysis/test, downtime and waste tracking, and production reporting.
Products available on a range...

...training and consulting available.

SYSCON-PLANTSTAR SYSCON INTERNATIONAL INC.

Focus series CIM systems provide real- **time** production and process monitoring, coupled with advanced statistical process/quality management. Modular systems allow users to start at any level and grow into more sophisticated configurations.

Focus-100 real- **time** production-control and process-management system includes job scheduling, material and labor tracking, machine and...

...and storage-scope graphical overlays. PC control stations make master files, historical data, and real- **time** data available for on-screen viewing or printed reports.

Focus-2000 includes all features of...

...settings that meet quality and productivity objectives. Dimensional variations are reduced, defects eliminated, and cycle **times** shortened by better combinations of temperatures, pressures, speeds, hold **times**, cooling rates, and other parameters. Ultramax also advises adjustments to compensate for changes due to...

...applications.

XRP-II spans the range of MRP II planning functions and adds critical real- **time** factory control with machine monitoring/automated data collection. Base system includes Unix operating system, Unify... step-by-step graphical approach to, process control, which includes observing the process in real **time**, entering input values and commands, acknowledging alarms, and changing control variables. Software moves through eight...

...phase. Injection/fill control choices of velocity vs. position, pressure vs. position, and pressure vs. **time**. Inject, pack and hold, and plastication profiles of 10 steps each.

Pro-Set 600 injection...

...machine-control system. Process control, communication, and SQC data gathering are some features. Saves development **time** by providing ladder-logic program for injection process control, clamp control, barrel-temperature control, and...Control features can include: electroluminescent or LCD operator displays, high-speed event detection for real- **time** response, high-density/high-power digital I/O, analog I/O, closed-loop control, alarm...

...ISA bus architecture, 386 and 486 32-bit microprocessors, DOS platform, plotting and graphics, real- **time** clock, soft keys, printer output, and auxiliary-equipment interface. Controls are programmed with Mechanism Control...

...combines accurate on-line profile measurements, precise feedback control, and a tool set for meeting **certification** requirements. Extruder and melt-flow modeling, combined with automatic profile control for extrusion dies, provides...

...be integrated easily into linewide and plantwide control strategies using TCP/IP communications.

Cimline real- **time** process-management system for sheet and film provides on-line measurements, advanced control strategies, and...

...PLC, temperature, and drive controls. Industry-standard X-Window system graphics provide fully interactive real- **time** display access from networked PCs and workstations for remote monitoring.

FILMASTER INC.

Dataline 2000 microprocessor...

...only. Up to 500 recipes and/or profiles can be stored and recalled at any **time** . Useful for blown film coextrusion applications are CRT monitoring of die-zone heating with setpoint...

...large expansion potential.

FISHER CONTROLS INTERNATIONAL

For extrusion control, Fisher-Rosemount offers RTM/1 Real- **Time** Process Management Solutions hardware and software, which include continuous control of temperatures, pressures, and speeds...A Central Control and Management Console oversees all plant activity. It has total SQC and " **Time** Machine" capability for reconstructing any parameter on any line for the previous week.

HES DIV...profile, tubing, and single extruders. Has operator interface with menu-driven touchscreen and optional real- **time** trending, along with melt-pump interface.

Larger lines can be controlled and monitored by Command Sentry 1500.. High-resolution, menu-driven color touchscreen has four-quadrant display. Real- **time** trending is standard. Options include real- **time** SQC charting, melt-pump interface, and sheet/film gauging.

Sentry 2000 process-control system provides...

...menu-driven input and separate screen for data and graphics, allowing user to view real- **time** trending and SQC charting.

Sentry Master 3000 Extrusion Host system works with firm's other...

...software on multitasking processors which allows users to perform more than one activity at a **time** by viewing entirely different areas of the same manufacturing line.

PROCESS CONTROL CORP. .

Gravitrol gravimetric...optical profiling of sheet and contoured products. Software monitoring and control include high-speed, real- **time** optimization of process variables. Factory services include product

testing, sensor and software demonstrations, recommendations for...

...CONSTRUCTION TECHNOLOGY DIV. INVESTMENT HOLDINGS GROUP LTD.

Microwave heating utilizes magnetron systems with on/off **time** -proportioning control or amplitude modulation. Meets safety standards and FCC regulations.

In amplitude modulation, current...spring-load thermocouple optional), one-piece clip for easy installation, and temperature-indicating decal to **identify** element failure. Special Large Trough Elements provide uniform watt density over a large area. Three...

...areas in thermoset molding. Units cool cores and molds faster than water to reduce cycle **time** , and draw heat from the plastic, transferring it to water channels or to the mold...1500 F, wavelength of 2.8 to 9.0 microns, and 4- min heat-up **time** . Housed in 3-in.-deep aluminized steel case (stainless steel available). Sizes to 122 in...

...to PC, chart-recorder, or printer.

Thermoprofile SLS "smart" infrared line-scanning systems for real-
time inspection, monitoring, and control of moving web and rotating
elements in continuous processes. Designed for...zero-crossover power drive
that delivers smooth, continuous a-c power, which reportedly improves
response time, reduces thermal fatigue and prolongs power life. (See ad
p. 264.)

ATKINS TECHNICAL CO.

Line...

...switches. Runs on one to three 9-v batteries, with 500 hr of continuous
operating time per battery. All instruments and probes available in
thermocouple types J, K and T.

Probes...

...4-DIN and series 10E 1/8-DIN. Series 10 controllers have 300-millisec
response time and accuracy of 0.3%. Series 15Q 1/4-DIN and series 15E 1/8
...

...extrusion temperature control. Eight zones of process control available
and built-in setpoint programmers permit time/process control. (See also
Hot-Runner Components/Systems and Total Machine Control Systems.) (See ad
...

...with autotuning PID and universal supply and inputs.

CANADIAN INSTRUMENTATION CO.

Flexible temperature, process and time/temperature stand-alone
controls can be fully configured by a temporary computer link-up. Also...
INSTRUMENTS

MTX fiber-optic infrared temperature transducer for nonintrusive
measurement of melt temperatures has response time of 10 millisec,
detects highly transient melt temperatures for tight process control, and
resists abrasion...Closed-loop temperature-control modules rated at 15 amps
and 120 or 240 v with time-proportioned power, automatic soft-start, and
digital display. One to 12 zones. Also single-zone...

...to 13 zones. Digital PID gives control with minimum overshoot and rapid
setpoint attainment. Processing time of 10 millisec/channel. Standard
features include thermocouple input, heating/cooling capability, PID
control programmable...

13/K/28 (Item 9 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

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LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 52347 LINE COUNT: 05236

... Corp.

B & J Machinery, Inc.

Cap Snap Co.

Crown Cork & Seal Company Inc.

Crown Cork & **Seal** Co., Inc.
 Electronic Liquid Fillers Inc.
Federal Mfg. Co.
Figgie Packaging Systems
Fowler Products Company
Holman Associates
Horix...Thermal Industries
Reynolds Metals Company
CAN FILLERS
Abuelo, Inc.
B & B Equipment Corp.
Crown Cork & **Seal** Company Inc.
 Electronic Liquid Fillers Inc.
Figgie Packaging Systems
Holman Associates
Horix Manufacturing Company
Intertrade Package Machinery
Kagome...Coin, Inc.
The Vendo Company
COIN SORTERS
Coin Controls, Int'l.
Scan Coin, Inc.
COIN **VALIDATORS**
Coin Bill **Validator** Inc.
Coin Controls, Int'l.
Conlux USA Corporation
Mars Electronics International
Rowe International, Inc.
COIN...
...Supply, Inc.
 Honor Gard
 COIN, CURRENCY CHANGERS
 Allied Purchasing Company
 Coin Acceptors, Inc.
 Coin Bill **Validator** Inc.
 Conlux USA Corporation
 Dixie-Narco Inc.
 Mars Electronics International
 Rowe International, Inc.
 COLD PLATES...Busse, Inc.
 Canners Machinery Ltd.
 Convay Systems Limited
 Cortez, Inc.
 CP Manufacturing, Inc.
 Crown Cork & **Seal** Company Inc.
 Electronic Liquid Fillers Inc.
 Fenco, Inc.
 Figgie Packaging Systems
 Fleetwood Systems, Inc.
 Goldco Wiebe
 Holman Associates...CAPPERS, CORKERS
 Abuelo, Inc.
 Alcoa Closure Systems Int'l.
 B & J Machinery, Inc.
 Crown Cork & **Seal** Company Inc.
 Electronic Liquid Fillers Inc.
 Federal Mfg. Co.
 Figgie Packaging Systems
 Fowler Products Company

Horix Manufacturing Company...

...1.

Promotions Etc., Inc.
CURB RAMPS
The Kurb Ramp
Magline, Inc.
CURRENCY COUNTERS
Coin Bill **Validator** Inc.
Dixie-Narco Inc.
Scan Coin, Inc.
CUSTOM DESIGN, FABRICATION
A & B Process Systems Corp...

...DOCK LIGHTS

Magline, Inc.
DOCK PLATFORMS, LEVELERS
Blue Giant Equipment Corp.
Magline, Inc.
DOLLAR BILL **VALIDATORS**
Coin Acceptors, Inc.
Coin Bill **Validator** Inc.
Conlux USA Corporation
Dixie-Narco Inc.
Honor Gard
Mars Electronics International
Rowe International, Inc...Ind.
GAUGE PROTECTOR
(DISPENSING EQUIPMENT)
Gorman Supply, Inc.
GAUGE PROTECTOR (VENDING)
Gorman Supply, Inc.
GIFT **CERTIFICATES**
Sears Incentive Sales
GLASS BOTTLE INSPECTION
AGR International, Inc.
Emhart Powers
Food Instrument Corporation
Heuft...Thermoplastic Processes Inc.
Thermo Tech Inc.
HOT FILL SYSTEMS
B & J Machinery, Inc.
Crown Cork & **Seal** Company Inc.
Electronic Liquid Fillers Inc.
Federal Mfg. Co.
Holman Associates
Horix Manufacturing Company
Intertrade Package Machinery
International...

...Solutions

Lord Label & Mfg. Co.
The Loveshaw Corporation
Marsh Company
Willett America Inc.
INK-JET **IDENTIFICATION** SYSTEMS
American Danatron Corp.
Domino Amjet, Inc.
Integrated Barcode Solutions
The Loveshaw Corporation

Marsh Company...Mott Metallurgical Corporation
Nalge Company
Osmonics, Inc.
Ozone Research
& Equipment Corp.
Sparkler Filters, Inc.
LASER IDENTIFICATION SYSTEMS
A-B Lasers, Inc.
Air Logic Power Systems
Directed Energy, Inc.
Domino Amjet, Inc...Insight Distribution Systems
Integrated Barcode Solutions
Micro Vane, Inc.
Norand Corporation
Racotek
Ram Systems, Inc.
Validata Computer & Research
ROUTING & SCHEDULING SOFTWARE
Allied Computer Systems, Inc.
Data Consultants, Inc.
The Descartes Sys...

...Ind.

SANITATION, STERILIZATION
Klenzade Division of Ecolab, Inc.
OxiDyn, Inc.
SCOREBOARDS
All American Scoreboards
Colorado Time Systems, Inc.
Daktronics, Inc.
Electro-Mech Scoreboard Co.
Everbrite, Inc.
Fair-Play Scoreboards
Nevco Scoreboard...508) 635-9100 Fax: (508) 635-9199 Carol Tatosian
* Coding, Marking Equipment
* label Printers
* Laser Identification Systems
* Non-contact Printers
Above the Crowd Balloons 23331 Peralta #5 Laguna Hills, CA 92653...

Inspection Equipment (production Equipment)

* Inspection Equipment (quality Control Equipment)
* Inspection Systems, Video
* Installation Services
* Laser Identification Systems
* Packaging Consultants
* Pet Bottle Inspection
* Pet Bottle Packaging Equipment
* Plant Engineering
* Plastic Bottle Equipment...Fagan
* Coding, Marking Supplies
* Ink-jet Bar Coding Systems
* Ink-jet Coding Systems
* Ink-jet Identification Systems
* Non-contact Printers
American Fuji Seal, Inc. 17 Stewart Place Fairfield, NJ 07004 Tel...
725-7198 James C. Douglass
* Coin Conversions
* Coin, Currency Changers
* Data Retrieval Systems

* Dollar Bill **Validators**
 * Vending Machines (bottle, Can, Carton)
 Coin Bill **Validator** Inc. 367B Bayshore Road Deer Park, NY 11729
 Tel: (800) 472-2506 Tel: (516) 242-0100 Fax: (516) 242-9248 Tom Mills

* Coin **Validators**
 * Coin, Currency Changers
 * Currency Counters
 * Dollar Bill **Validators**
 Coin Controls, Int'l. 1850 Howard Street Elk Grove Village, IL 60061
 Tel: (800) 323-8174 Tel: (708) 228-1810 Fax: (708) 228-1833 Ian McCormick

* Coin Sorters
 * Coin **Validators**
 Colorado **Time** Systems, Inc. 1551 E. 11th Street Loveland, CO
 80537-5056 Tel: (800) 762-1618 Tel...

...937-0033 Tel: (800) 792-0101 Fax: (800) 677-5522 Mark Giroux

* Coin Conversions
 * Coin **Validators**
 * Coin, Currency Changers
 * Currency Counters
 * Dollar Bill **Validators**
 * Maintenance Equipment, Systems
 Consumers Glass 777 Kipling Avenue Etobicoke, Ontario, M8Z 5Z4 Tel:
 (416) 232...Tel: (800) 435-4432 Tel: (714) 707-2800 Fax: (714) 707-5181
 Stanley Parnas

* Laser **Identification** Systems
 Display Technologies 30-56 Whitestone Expressway Flushing, NY 11354
 Tel: (718) 321-7000 Fax...

...803) 266-5150 Douglas C. Huffer

* Coin Counters
 * Coin, Currency Changers
 * Currency Counters
 * Dollar Bill **Validators**
 * Locks
 * Locks, High Security
 * Locks, Inner Cylinder
 * Parts, Mechanical Supplies
 * Soft Drink, Bulk Vending Machines...

...Equipment

* Coding, Marking Supplies
 * Ink-jet Bar Coding Systems
 * Ink-jet Coding Systems
 * Ink-jet **Identification** Systems
 * Label Printers
 * Laser **Identification** Systems
 * Non-contact Printers
 Double-Cola Co. (USA) 3350 Broad Street Chattanooga, TN 37408-3090...
 0888 Fax: (708) 806-0992 John M. Ongena

* Coin, Bill Security Box, Bag
 * Dollar Bill **Validators**
 * Locks
 * Locks, Cam
 * Locks, High Security
 * Safes
 Hopunion U.S.A., Inc. 203 Division Street...446-2719 Tel: (713)
 391-4704 Fax: (713) 391-4239 Patrick Cuming

- * Coin Conversions
- * Coin **Validators**

Imperial Flavors Beverage Co. 531 East Keefe Avenue Milwaukee, WI
53212 Tel: (414) 961-7788...

...Data Retrieval Systems

- * Distribution
- * Ink-jet bar Coding Systems
- * Ink-jet Coding Systems
- * Ink-jet **Identification** Systems
- * Label Printers
- * Labels
- * Laser **Identification** Systems
- * Route Accounting Systems
- * Routing & Scheduling Software
- * Single Source Turnkey Projects
- * Software Development
- * System Design...Equipment)
- * Inspection Equipment (quality Control Equipment)
- * Inspection Systems, Video
- * Installation Services
- * Label Dispensers
- * Labelers
- * Laser **Identification** Systems
- * Level Measurement & Control
- * Lid Capper
- * Liquid Level Gauges, Controls
- * Liquor Dispensers
- * Machinery Parts, Supplies...Equipment)
- * Coding, Marking Equipment
- * Ink-jet Bar Coding Systems
- * Ink-jet Coding Systems
- * Ink-jet **Identification** Systems
- * Non-contact Printers
- * Tape Equipment, Systems
- * Tray Formers, Packers, Loaders
- * Wraparound Packers

Lubriplate Division...2500 Tel: (800) 345-8215 Fax: (215) 430-2694

Tom Hardee

- * Cash Card Systems
- * Coin **Validators**
- * Coin, Currency Changers
- * Computer Systems
- * Data Retrieval Systems
- * Dollar Bill **Validators**
- * Route Accounting Systems
- * Salt Water Divertor

Marsh Company 707 East "B" Street P. O. Box...

...Equipment

- * Coding, Marking Supplies
- * Ink-jet Bar Coding Systems
- * Ink-jet Coding Systems
- * Ink-jet **Identification** Systems
- * Non-contact Printers
- * Stencil Machines
- * Tape Equipment, Systems

Martin Sprocket & Gear, Inc. 3100 Sprocket...Road Whippany, NJ 07981
Tel: (201) 887-0400 Fax: (201) 887-2851 Tom LaMore

- * Coin **Validators**
- * Coin, Currency Changers
- * Dollar Bill **Validators**
- * Vending Machines (bottle, Can, Carton)
- * Vending Machines (cups)
- * Vending Machines (full Line)
- * Vending Machines (hot...Tel: (800) 626-9304 Tel: (708) 285-7400

Fax: (708) 285-8400 Judi Corbett

- * Gift **Certificates**
- * Incentive Marketing Services
- * Premiums, Promotional Items

Secure Pak, Inc. P. O. Box 14499 Toledo, OH...0529 Tel: (617)
933-3570 Fax: (617) 932-9428 Leonard Gardner

- * Liquid Nitrogen Injection Systems

Validata Computer & Research 428 South Perry Street Montgomery, AL
36104 Tel: (205) 834-2324 Fax: (205)...

...Alarms

- * Coin Counters
- * Coin Wrappers-plastic, Paper
- * Compressor Accessories
- * Compressors
- * Compressors, Refrigeration (vending)
- * Dollar Bill **Validators**
- * Hand Trucks, Carts
- * Liftgates
- * Locks
- * Locks, Cam
- * Locks, High Security
- * Locks, Inner Cylinder
- * Lubricants
- * Padlocks...216) 432-1800 Tel: (800) 321-2311 Fax: (216) 432-2786

Greg Garson

- * Dollar Bill **Validators**
- * Used Equipment
- * Vending Decals, Signs
- * Vending Machine Refurbishing
- * Vending Machine Refurbishing Panel
- * Vending Machines (bottle...Supplies
- * I.d. Systems
- * Ink-jet Bar Coding Systems
- * Ink-jet Coding Systems
- * Ink-jet **Identification** Systems
- * Label Dispensers
- * Label Makers
- * Label Printers
- * Labelers
- * Labels
- * Non-contact Printers

The Williams Company...

13/K/29 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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07235982 SUPPLIER NUMBER: 14937959 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Manufacturers alphabetical listing. (makers of heating, air conditioning
and refrigeration products) (Directory)**

Air Conditioning, Heating & Refrigeration News, v191, n1, p38(109)

Jan 3, 1994

DOCUMENT TYPE: Directory ISSN: 0002-2276 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 84872 LINE COUNT: 06842

... D. Guarino, dir.; J. Mazzola, quality ctrl. Duct connectors, damper hardware, bandsaw blades, quadrants, regulators, **seals** and energy conservation products for hvac industry, spiral pipe and fittings.

American Energy Technologies, Inc...Hannon, c.f.o.; G. Norton, v.p.-sales. Electronic timers, industrial controls, solid state **time** delay relays.

ASAHI/America 19 Green St., Malden, MA 02148 Phone: (617) 321-4421&(800...Delavan, WI 53115 Phone: (414) 728-5531 Fax: (414) 728-3788 Electromechanical and electronic industrial **time** controls, defrost controls, and energy management controls.

Bradford-White Corporation 323 Norristown Rd. #200, Ambler...gas furnace ignition systems, warm air, fan and limit controls, **time** delay relays, solid state **time** delay blower motor controls, short cycle motor protectors, integrated furnace systems, wall thermostats and temperature... W. Hodges, mktg. mgr./transducers prod. Pressure transducers, linear position transducers, safety and automation controls.

Date -Basics, Inc. 11000 Cedar Road, Cleveland, OH 44106 Phone: (800) 837-7574 Fax: (216) 721...prod. safety group; J. R. Williams, v.p.-gen. testing group. Independent testing laboratory services, **certification** services, inspection, listing and labeling services.

Eubank Mfg. Enterprises P.O. Box 7938, Longview, TX...

...O. Box 82122, Burnaby, BC V5C 5P2 Phone: (604) 294-1192 G. McAndrew, mktg. mgr. **Time** and temperature controls, timed override switches, loopcontrollers for hydronic heat pump systems, **time** delays, lead/lag pump controls,

Exhausto, Inc. P.O. Box 720651, Atlanta, GA 30358 Phone...mgr.; G. K. Manghi, natl. sales mgr.; I. A. Bootz, dir.-mktg. Electronic and synchronous **time** switches; process and defrost controls thermostat and photo electric switches; hour meters.

Grasso Inc. 1101...v.p.; D. L. Hamilton, cust. svc.; L. J. Kadah, mktg. dir. Solid state controls, **time** delays, anti-short cycle timers, head pressure controls, speed controls, phase monitors. SEE OUR ADS... Phone: (708) 231-5900 Fax: (708) 231-1377 R. Fabro, sales mgr.-o.e.m. **Time** delay relays, solid state relays, temperature controllers, thermometers.

National Draeger, Inc. P.O. Box 120...777-3300 Fax: (708) 532-1811 S. Sitzberger. Flexible duct clamping system and wiring devices, **identification** products; markers, safety signs, pipe markers; solderless terminals.

Paragon Electric Co. Inc. 606 Parkway Blvd...793-1161 Fax: (414) 793-3736 T. Meinholdt, prod./mktg. mgr.; D. Karman, dir.-sales. **Time** control devices for heating, cooling and refrigeration, solid state control devices for heating, cooling/ refrigeration...refrigerated walk-in and reach-in cases; full line of 24 hour and 7 day **time** switches.

Precision Parts Corp. 4188 E. Andrew Johnson, Morristown, TN 37814 Phone: (615) 587-9390...hvac prod. mgr.; M. Aucr, dir.-engrg. Registers, grilles, diffusers, mechanical and architectural louvers.

Reliance **Time** Controls, Inc. 1820 Layard Ave., Racine, WI 53404 Phone: (414) 634-6155 Fax: (414) 634-6436 D. F. Flegel, ch.; D. D. Flegel, pres.; J. D. Flegel, v.p. **Time** switches; interval timers; repeat cycle timers; electromechanical timing devices and controls.

Remcor Products Co. 500...

13/K/30 (Item 11 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
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07185099 SUPPLIER NUMBER: 15062864 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Put public key infrastructure before EDI, study advises. (electronic data interchange)

Power, Kevin

Government Computer News, v13, n2, p58(1)

Jan 24, 1994

ISSN: 0738-4300

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 963

LINE COUNT: 00081

...ABSTRACT: use of electronic data interchange (EDI) technology. A public key infrastructure would certify messages with **digital signature seals**. Mitre's report outlines a blueprint for such infrastructure, including the legal, regulatory and economic...

... the White House has yet to unveil a comprehensive strategy for managing public keys and **certificates** that prove a digital signature's authenticity.

Interstate highway

"We need an infrastructure to support...

...envisioned by the White House, agency users also will have to wrap their keys in **certificates**.

Public key **certificates** usually contain the user's **identification**, public key and a **time / date** stamp. These message packets are **validated** by a **certification** authority, which checks the keys and digital signatures.

"We have to have an **identification** and authentication mechanism, which is a distinguishable name and **certificate**, and that can be put together using a public key," said Dennis Branstad, a CSL...

...the government still needs a central authority for setting policy and issuing public keys and **certificates**, the study said.

The report recommends that policies be crafted by representatives from the Defense...

...Systems Agency, GAO, GSA, NIST, the NSA, OMB and the Postal Service.

Daily policy and **certification** authority could be handled by GSA or the Postal Service, while an executive department or...

...authorities," which would confirm the identity and affiliation of users and register them with the **certification** authorities.

The study also said new legislation is needed to define the government's authority...

...these decisions should be made by the agencies with guidance from the central policy and **certification** authorities, the report said.

"Obviously a decision not to compute signatures in the protected environment...

...ways for interacting with industries and foreign governments that might employ different signature algorithms and **certification** procedures.

13/K/31 (Item 12 from file: 148)
 DIALOG(R)File 148:Gale Group Trade & Industry DB
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03928190 SUPPLIER NUMBER: 07705311 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Supplier profiles. (I-Z) (Automotive OEM Source Guide)
 Automotive Industries, v169, n6, p227(26)
 June, 1989
 ISSN: 0273-656X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
 WORD COUNT: 16087 LINE COUNT: 01429

... climate control systems as wear components.
 Industrial Tectonics was the first domestic supplier awarded source **certification** from Rochester Products Division of General Motors. This award, which included a number one quality...

...staff of top-notch technical talent has the in-depth knowledge and experience required to **identify**, develop, implement and support real solutions to our clients' engineering, manufacturing and integration problems. We...seats annually.

LSSC is a customer-driven company and its production sequencing and just-in- **time** delivery capabilities are unsurpassed. Computer-aided design and manufacturing systems with on-line capabilities make...aerospace.

LTV Steel Company

LTV Steel continuously strives to satisfy automotive requirements 100% of the **time**. LTV's capital investments, innovative products and programs and dedicated, skilled employees contribute to automakers... methods make them right for you. Magnavox delivers. And we'll do it just in **time** within 200 miles of Detroit.

Mallory Automotive Controls Group
 For over forty years Mallory has...

...s R&D staff, Mallory developed units that reduced the amount of wiring, connections and **time** required for installation.

Quality is the single most important concern for the Automotive Controls Group...provides superior fit, finish, and insulation against sound, vibration and heat, while at the same **time** helping manufacturers reduce parts and weight. This floor system is being installed today in the ...

...and development, design engineering and toolmaking. In addition, Masland operates a network of "Just In **Time**" component fabricating plants spanning the US and extending into Mexico and Canada.

Mikron Corporation Monroe...analytical laboratories routinely run multiple checks on thousands of solutions & samples to correct chemical imbalances, **identify** trace contaminants & solve operational problems in customers' plants.

Through the quality of its products & services...

...Specific Plastics help you reduce costs...extend product life...consolidate parts...improve processing and cycle **times** ...reach your design goals.

Research efforts applied to your current requirements -- and to your future...Fiber-optic laser scanning and other in-process check points for exacting quality control and **validation** procedures.

. Patented screen printing services, as well as coating and beading technologies.

. A full range...

...Systems: . Highly advanced in designing, computer modeling & developing preassembled suspension system modules for Just-In- **Time** delivery.

. North America's largest independent automotive suspension coil spring supplier.

. A leading supplier of...products include; Spark Plug Insulators, Distributor Nipples, Rubber-to-Metal Bonded Parts, Fuel-Cell Isolators, **Electronic** Fuel Injection Pump **Seals** , Brake-Hose Sleeves, Wire-Connector Seals, MacPherson Strut Upper and Lower Mounts, Fiberglass Suspension System...

...our "Commitment to Excellence." This commitment, which encompasses product quality, design reliability and dependable, on- **time** delivery at competitive prices, is fundamental to our philosophy of achieving the position of "Best...wiring -- can be designed and manufactured by UTA and shipped to your plant, just-in- **time** , for snap-in assembly. We design and produce total car line electrical distribution systems.

Backing...

...got design engineers talking about building cars and trucks with them."

There certainly was a **time** when Velcro(R) brand fasteners were only thought of as a way to fasten kids...received top quality ratings from its automotive customers and is equipped to meet just-in- **time** delivery requirements.

Gerotor electric fuel pumps manufactured by Walbro Automotive's Michigan Division in Caro...and tightly controlled. Because management and employees take great pride in delivering quality products on **time** and at the lowest practical cost, they demand the same attention and response from suppliers...

...raw materials, goods and services.

The same traditional philosophy of producing the best castings, on **time** at the lowest cost carries over to Wheland's new ductile iron foundry, which produces...

13/K/32 (Item 13 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
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03132314 SUPPLIER NUMBER: 04755225 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Yellow pages section. (Research and Development telephone directory; industry type)

Research & Development, v29, p75(320)

March 15, 1987

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 214118 LINE COUNT: 16944

... 892-3361

Techrand Corp of America, 1261 Holton Rd, Muskegon, MI. 49445
616-744-1663

Time Zero Corp, 103 Central Ave, Clifton, NJ. 07011 201-340-0400
Assemblies, Semiconductor

Rel Labs...717-295-6123

Sierra Scientific, 1173 Borregas Ave, Sunnyvale, CA. 94089
408-745-1500

Cameras, **Time** -Lapse

Instrumentation Mktg Corp, 820 S Mariposa St, Burbank, CA. 91506
213-849-6251

Cameras...
 ...Box 6910, Bridgewater, NJ. 08807 201-231-0960
 Cameras, X-Ray
 Rigak/USA Inc, 3 **Electronics** Ave, Danvers, MA. 01923 617-777-2446
 Surface Science Labs Inc, Analytical Instruments Div, 465...INC, 75
 South St, Hopkinton, MA. 01748 617-435-9039
 Computers and Accessories, Analog
 Real **Time** Devices Inc, 1930 Park Forest Ave, State College, PA.
 16803 814-234-8087
 Computers and...Scintillation
 EG & G ORTEC, 100 Midland Rd, Oak Ridge, TN. 37830 615-482-4411
 Counters, **Time** Interval
 COLE-PARMER INSTRUMENT CO, 7425 N Oak Park Ave, Chicago, IL. 60648
 312-647...883-7300
 TRACOR WESTRONICS INC, 2441 Northeast Pkwy, Fort Worth, TX. 76106
 817-625-2311
Validyne Engineering Corp, 8626 Wilbur Ave, Northridge, CA. 91324
 818-886-2057
 Data Bus Components
 KINETICSYSTEMS CORP, 11 Maryknoll Dr, Lockport, IL. 60441
 815-838-0005
Validyne Engineering Corp, 8626 Wilbur Ave, Northridge, CA. 91324
 818-886-2057
 Data Communication Consulting
 Technology...

13/K/33 (Item 1 from file: 9)
 DIALOG(R)File 9:Business & Industry(R)
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02271417 Supplier Number: 25838754 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Signed, Sealed, Delivered
(Electronic Signatures in Global & National Commerce Act does not dictate
whether e-signature needs to be secured; number of global firms using
digital certificates will be 98% by 2003, vs 30% currently)
 Industry Standard, v 3, n 37, p 304+
 September 18, 2000
 DOCUMENT TYPE: Journal ISSN: 1098-9196 (United States)
 LANGUAGE: English RECORD TYPE: Fulltext
 WORD COUNT: 1345

(USE FORMAT 7 OR 9 FOR FULLTEXT)
 ...**(not dictate whether e-signature needs to be secured; number of global**
firms using digital certificates will be 98% by 2003, vs 30% currently)

TEXT:

...rely on them since they can be an open invitation for fraud. Digital
 signatures -- the **online** equivalent of a wax **seal** on an envelope --
 offer a basic level of security for transmitting a signature over a...

...sent; the systems don't verify the the signer's identity.
 That's where digital **certificates** come in handy. This form of secure
identification can be stored on personal computers, portable devices and
 even smartcards. Large corporations and banks...

...years to confirm the identities of parties doing business online, The
 current use of digital **certificates** is limited to corporations and

governmental agencies primarily because of cost concerns. A typical in...

...of dollars when you factor in staff. Nevertheless, the number of global companies using digital **certificates** will surge from 30 percent today to 98 percent by 2003, according to the Aberdeen...

...clear, though. For example, Wells Fargo is evaluating vendors that could help it issue digital **certificates**, using what's known as a public key infrastructure (PKI). And even if one is built, digital **certificates** "won't completely replace the physical signature," says Debra Rossi, executive VP of business Internet...

...signature. For instance, Chase Manhattan, with more than \$400 billion in assets, began using digital **certificates** in 1998 for managing fund transfers with its deep-pocketed corporate-banking customers. The bank... security strategy and infrastructure. So it decided to set up a PKI for issuing digital **certificates**.

The main component of a PKI is a **certificate** authority, which issues the **certificate**, keeps a repository of **valid certificates** and manages a protocol for registering, **revoking** or verifying them. The **certificate** itself contains the issuer's name (for example, Chase Manhattan), a serial number, a signature algorithm ID, an **expiration date**, an employee's public key and unique **identifiers** for both the issuer and the employee. The **certificates** are generated by a third-party vendor like Entrust Technologies. Chase pays a software licensing fee to Entrust to generate its **certificates**, which are stored and retrieved from a server.

Although Calaceto declined to disclose how much...

...signatures in 1996. Indeed, in 1998 Aberdeen concluded that Entrust was the most expensive digital-**certificate** supplier, compared with VeriSign and Netscape. The research group calculated the total cost of ownership...

...per user, But that doesn't reflect the cost of internally managing and staffing a **certificate** authority, which usually is the most expensive component in a PKI. Calling the management of...

...quite burdensome," Calaceto notes some of the costs Chase incurs come from issuing its own **certificates** to customers. For instance, before the bank issues a **certificate**, the bank snail-mails a document containing unique information the customer must use to activate the digital **certificate**.

The trustworthiness of a digital **certificate** ultimately depends on how the issuer has safeguarded their digital ID. Banks by their very...

...either individuals or corporations, assume their financial institutions are trustworthy in sensitive services like digital **certificates**.

That trust is essential, with or without E-Sign -- a law so broad it's...

...the end of the day," says Aberdeen analyst Jim Hurley, "what a customer using digital **certificates** asks is, Can I really count on the receivables on this piece of paper?"

E...

...joh@thestandard.com

SIGN LANGUAGE

A brief glossary of key terms in secure electronic signatures.

Certificate authority (CA): A trusted third party that issues digital **certificates** (digital IDs) and makes its public keys widely available to intended audiences.

Cryptography: The conversion...

...is an encrypted digest of the text that is sent with the text message.

Digital **certificate** : The digital equivalent of an ID card used in conjunction with a public key encryption system. Also called "digital IDs," digital **certificates** are issued by trusted third parties known as **certificate** authorities after verifying that a public key belongs to a certain owner. The **certification** process varies depending on the CA and the level of **certification** .

Public key encryption: The published part of a two-part, public key cryptography system. The...

...and procedures for establishing a secure method for exchanging information. It includes the use of **certification** authorities and digital signatures, as well as all the hardware and software used to manage...

13/K/34 (Item 2 from file: 9)

DIALOG(R) File 9:Business & Industry(R)

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02259569 Supplier Number: 25836451 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Legal status for digital signatures will mean faster commerce. Get ready.

-- Digital Signatures Seal Web Deals

(In terms of dollar value, greatest impact of Electronic Signatures in Global and National Commerce Act (E-Sign) will be from B-to-B market)

Information Week, p RB26

September 18, 2000

DOCUMENT TYPE: Journal ISSN: 8750-6874 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1202

(USE FORMAT 7 OR 9 FOR FULLTEXT)

Legal status for digital signatures will mean faster commerce. Get ready.

-- Digital Signatures Seal Web Deals

TEXT:

...to physically sign contracts or other legal documents and ship them back and forth to **seal** a deal.

The legal acceptance of **digital** signatures means businesses and individuals will be able to finalize deals online with less **time** , cost, and effort. Reducing-or in some cases eliminating-printing and shipping costs is significant. But more important is the effort and **time** cut out of finalizing a contract. Complex, online business-to-business transactions can become a real- **time** affair.

The biggest impact of digital signatures will come in financial services. Think of all...

...sign gets around this obstacle, and it also simplifies the process of third-party legal **validation** for deals involving more than one trading partner.

How It Works

Digital signatures can be any form of **electronic seal** agreed to by the two parties. The most common approach relies on digital **certificates** and encryption. The encrypted signature can reside on a machine, be carried on smart cards, be authenticated via passwords or personal **identification** numbers, or even be a biometric authentication, such as a fingerprint or retinal pattern.

A...

...spoken to one another. Technology needs to establish credibility, security, and trust.

That's where **certification** authority technology comes in-establishing the parties as who they say they are. Key vendors...

...and Xcert. Service providers, such as Baltimore Technologies, GlobalSign, and VeriSign, act as third-party **certification** authorities to issue **certificates** to trading partners and **validate** them before transactions are executed. There's also a role for **certification** authority clearinghouses or consortia such as Identrus, which **validates** the **certifications** of the buyers' and sellers' banks.

Another obstacle to digital signatures is changing technology. For example, if a seller implements new digital signature technology, it will have to re-issue **certificates** to its customers before handling new transactions or requests. While this may slow customer adoption...

...health care industries can process claims and payments online, while government agencies can automate many **time**-consuming and paper-intensive processes. Manufacturing also stands to benefit by automating purchase approvals through...

...raw material acquisition to shipment approval to inventory ordering speeds up, companies could drastically reduce **time**-to-market.

Looking Ahead

With the federal government's nod, the speed of E-commerce...

...and mutual benefit still will be difficult to build. Technology vendors can still provide shoddy **certificates** without the security or authentication they promise.

But the bottom line is that buyers and...

...Reduced paperwork; faster approvals

- Increased velocity of fund transfers

- New business opportunities to act as **certification** authorities

- Automation of **time** -consuming and costly processes
- Automation of claims and payments
- Integration with insurance companies and provider...

13/K/35 (Item 3 from file: 9)

DIALOG(R) File 9:Business & Industry(R)

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02093309 Supplier Number: 25623085 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Legally Binding E-Documents Move Closer To Reality -- Two Companies Ink An E-Lease, But Obstacles Block Full Acceptance Of Paperless Processes
(Ability to provide digitally signed E-documents is an important step for e-commerce; however, the laws and regulations that address the issue are confusing)

Information Week, p 120

March 06, 2000

DOCUMENT TYPE: Journal ISSN: 8750-6874 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2218

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...without paper or physical signatures is an important step for E-commerce. Using a digital- **certificate** system created by public key infrastructure vendor EOriginals Inc., the lease was created electronically, signed...

...ultimately will overcome those problems and provide strong user authentication through the use of digital **certificates** , digital signatures, and encryption.

The three major components of a public key infrastructure system are a **certificate** authority, a repository, and a registration authority. The registration authority is responsible for establishing a user's identity before instructing the **certificate** authority to create a digital **certificate** . The **certificate** authority creates a **certificate** and a public encryption key that travels with a document and can be used by...

...the signer and wasn't changed. The repository, usually a directory or database, stores digital **certificates** , **certificate** users, and **revocation** lists.

The biggest problem in adopting digitally signed E-documents is the con-fusing patchwork...

...companies that know and trust one another. "Furthermore, high-value transactions take place all the **time** over unsecured, unrecorded phone lines between trusted trading partners based on something called 'their word...

...and co-owner Lois Elkin says the psychological barriers to digital signatures are generational. "As **time** goes by, the kids who have been brought up doing everything on computers will replace the generations brought up working on paper. The generation that tells **time** with digital clocks and ties their shoes with Velcro will have more acceptance of this

...

...the E-document is routed to a special server called the Trusted Custodial Utility, which **validates** the signatures and adds a **date** and **time** stamp. At this point, a digital signature-a mathematical calculation of every bit in the document-is created. A digital signature is unique for every document and it **electronically seals** the document so it can't be altered without detection, even by the originator. This...

...not a legally binding document," Trotter says. The company says it works with customers to **identify** cost savings and profits resulting from its software, and charges a percentage of that number...

...s senior VP of technology.

After evaluating security measures, Ruesch "went the pure software digital **certificate** route," Szoc says. "We felt we had to go beyond the secure Internet interactions one..."

...RueschLink, a secure extranet built using CyberTrust's Secure Extranets package. The package includes a **certificate** authority, Web server, directory, database, firewall, access control, and managed services. CyberTrust's system supports...

...responsibility for maintaining security by agreeing to keep passwords secret and regulating the issuance and **revocation** of digital **certificates**. CyberTrust says it can build a PKI system for customers for \$50,000 to \$100...

...paper. "We only have 200 people at Persistence and we don't need them spending **time** searching for lost paper," she says.

To change that, Persistence is testing a Web-based...

...forwarded to a database on the back end-without the question. So, at a later **time**, how does one prove the context or what was agreed upon? The answer, Gates says...

13/K/36 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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13418623 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Electronic Signatures Act Entails New Verification Technology

Bruce Spence

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (RECORD - STOCKTON, CALIFORNIA)

October 22, 2000

JOURNAL CODE: KRSC LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1291

(USE FORMAT 7 OR 9 FOR FULLTEXT)

Time, as the saying goes in the business world, is money.
So a new federal act that cuts paperwork out of business deals means less **time**, less expense and more convenience, right?
... eviction notices, though, still must be handled in written form.)
"It saves on labor and **time**," said Mark Plovnick, dean of University

of the Pacific's Eberhardt School of Business. "It will cut enormous amounts of **time** out of the equation."

People are worried about security issues and fraud.

"But you can...

...areas as mortgages and life insurance.

Prince also said it's going to take some **time** for consumers to understand and accept the new way of doing business.

A recent survey...

...com found that less than half knew what digital signatures are.

The technology companies that **validate** online identities want to change that.

Santa Clara-based Arcot Systems Inc., an Internet security...

... digitally sign a document, someone first has to prove their identity to get a digital **certification** that is like a numerical equivalent to a signature on paper.

The signature moves over...

... than the user tries to access the signature and enters the wrong PIN number three **times**, the signature gets voided.

Marlin Gilbert, vice president of business development at Arcot, said there...

... transaction while being secure is knowing that the person transmitting the digital signature is correctly **identified**.

"With this strong type of authentication capability, you get security and convenience," he said.

Under...

... is enthusiastic about the possibilities of handling more business electronically as a saver of both **time** and money.

"I like the way we use faxes," she said. "So signatures through e... estate industry has been touting the potential advances from increased use of the Internet and **electronic** technology to **seal** sales and set up financing.

Jennifer Pilcher, escrow coordinator with the Real Estate Connection in...

13/K/37 (Item 2 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

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10637171 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Text Of New China Online Securities Regulations

CHINA ONLINE

April 18, 2000

JOURNAL CODE: WCON LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1968

(USE FORMAT 7 OR 9 FOR FULLTEXT)

The April 14 edition of the Zhengquan Shibao (Securities **Times**) published the text of China's "Interim Regulations for the Online Securities Brokerage Sector," which...

... investors, the securities company shall require investors to

present the original copy of their identity **certificate** while also providing investors with materials that can prove the securities company's identity and...

... maintenance of the online commission system. Programs or systems concerning investors' fund account, stock account, **identification** and other data must not be entrusted outside securities companies' legal business site.

Article 12...

... data shall be saved for at least 15 years (an electronic medium characterized by long- **time** storage and a one- **time** input is permitted).

Article 15. Securities companies shall arrange their own professional staff to handle...

...restrictive system.

Article 16. The online commission system shall contain functions or facilities for real- **time** monitoring and to prevent illegal visits. It shall properly store the journal file and auditing...

...the Internet.

Article 18. Securities companies shall adopt reliable technical or managerial measures to correctly **identify** online investors so as to forestall fake clients or fake securities companies. Securities companies must...

...engages in online commission.

Article 20. Key technical products relating to safe data transmission and **identification** in the online commission system shall pass the safety testing and appraisal of authoritative state...

...The online commission system and the maintenance management system shall pass authoritative state institutions' safety **certification**. Software involving the system security and the core business shall have the third party of...

... Article 23. Securities companies that engage in the online commission business shall mark the release **time** or delay **time** of stock quotations if they provide market quotations to their clients. If they provide their ...commission sector without the approval of the CSRC.

Article 25. Securities companies that have obtained **certification** to engage in the online commission business can offer an online commission service through their...

...submit the following materials to the CSRC:

1. An application form to engage in the **online** commission business (stamped with the official **seal**);
2. A copy of its Business License for Securities Operations;
3. Resumes of (company-level...

... shall include technical standards and strategies for implementing the standards regarding the network structure, real- **time** monitoring, **identification**, transmission encryption, a digital signature, network separation and risk prevention, the mode of network communications...

...information transmission, a substitute method of commission and measures concerning data and system restoration;

12. **Certificates** provided by authoritative state institutions concerning the safety testing of the system, related products, and the

management and maintenance system, or **certificates** provided by other related quality-control authorities (copies);

13. The Web site address for Internet...

... The CSRC shall make a decision in no more than three months starting from the **date** on which it accepts the application materials.

Article 30. If a securities company that has...

... with the seriousness of the case. Serious violators of the Regulations shall have their license **revoked**.

Article 34. The implementation of the Regulations by securities companies is within the scope of...

13/K/38 (Item 3 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

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05492129 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Hewlett-Packard gets Post contract

HONG KONG STANDARD

May 27, 1999

JOURNAL CODE: WHKS LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 308

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...the Internet.

Hewlett-Packard's system will turn Hong Kong Post into a world-class **certification** authority (CA), Wai Fung Yuk, director of the Hong Kong Post Electronic Services, said yesterday.

The project will be completed by the end of the current year in **time** for the government's electronic services delivery programme which is being launched in 2000.

CAs are trusted third parties who put an **electronic seal** of approval on documents exchanged between business entities transacting on the Internet.

Such a seal is legal testimony that the transacting clients are **valid** partners and that the documents exchanged are authentic, secure and cannot be denied by either party.

The technology used to **identify valid** partners and ensure security of information exchanged on the net involves issue of what are...

...or root CA for Hong Kong early this year.

Hong Kong Post will issue electronic **certificates** to businesses seeking to transact on the net and set up a directory of subscribers.

"The issue of electronic **certificates** or 'e-Cert' will signify that the party is an authentic transacting entity," Mr Yuk...

13/K/39 (Item 1 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2006 Business Wire. All rts. reserv.

00421707 20001205340B9657 (USE FORMAT 7 FOR FULLTEXT)

Equant Enables Secure Electronic Global Business-to-Business Transactions-Virtual Communication Opportunities Expand Across Global Network

Business Wire

Tuesday, December 5, 2000 08:03 EST

JOURNAL CODE: BUSINESS WIRE, COMTEX LANGUAGE: ENGLISH RECORD TYPE:

FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 713

TEXT:

...today became the world's first network service provider to issue its own managed digital **certificates** that secure global business-to-business transactions over the Internet or an extranet.

Equant launched its DigiCerts service using its own **certification** authority (CA), which has been independently audited by Deloitte & Touche. Equant now offers a comprehensive range of digital **certificates**, providing electronic proofs of identity, such as digital signatures on documents for end-users of business-critical applications. Digital **certificates** **validate** a user as a "trusted person" so that other users receiving files or instructions have ...

...enable multinational companies to conduct global e-commerce," said Charlier.

Many businesses compare a digital **certificate** issued by a **Certification Authority** to a Government passport. End-users can use a digital **certificate** to authenticate themselves, ensuring data confidentiality, integrity and non-repudiation. Equant manages the end-to-end service; whereas Equant's competitors often use third-party **certification** authorities, which means that the service is not managed by a single entity end to...

...the eBusiness process and its security.

Equant also is providing a unique Organization Trusted Stamp **certificate** - an **electronic** version of an official **seal** - as well as different classifications of individual, server and virtual private network (VPN) **certificates**. Using an Organization Trusted Stamp, companies can digitally sign high-value, multi-million-dollar contracts...

...digitally signed contracts as legally binding as those signed in ink.

Equant will issue digital **certificates** to secure most IP and e-commerce applications, such as:

- E-mail.

- Web communications (web...

...business e-commerce.

- Electronic contracts.

-- VPN Access.

-- Many applications distributed by ASPs.

Equant's digital **certificates** are based on Entrust Technology, a leading Public Key Infrastructure (PKI) software company. A fully redundant infrastructure of secure, around-the-clock **Certificate** Authority Centers has been set up in Atlanta and Montreal.

About Equant

Equant operates the...

...by Equant with the SEC, specifically the most recent filing on Form 20-F, which **identify** important risk factors that could cause actual results to differ from those contained in the...

...stock price. All forward-looking statements are based on information available to Equant on the **date** hereof, and Equant assumes no obligation to update such statements.

CONTACT: Equant
Equant Media Relations...

13/K/40 (Item 1 from file: 636)

DIALOG(R) File 636:Gale Group Newsletter DB(TM)

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03915851 Supplier Number: 50134633 (USE FORMAT 7 FOR FULLTEXT)

ACCOUNTANTS, VERISIGN PROMOTE EC PRIVACY: SECURITY KEY TO INTERNET COMMERCE GROWTH

Electronic Commerce News, v3, n19, pN/A

May 11, 1998

Language: English Record Type: Fulltext

Document Type: Newsletter; General

Word Count: 1151

... of the burgeoning market.

The American Institute of Certified Public Accountants has teamed with digital **certificate** vendor VeriSign to train accountants as certifying authorities.

"We looked and said 'Why is EC...

...three of the Big Six accounting practices - Deloitte & Touche, Coopers & Lybrand and KPMG.

VeriSign Delivers **Certificates**

Mountain View, Calif.-based VeriSign Inc. is the "technical partner" for the institute's CPA WebTrust program. The **digital certificate** vendor is managing the **seal** process and maintaining a database of certified merchants.

WebTrust **certification** seals come with Class 3 server **identification** provided by VeriSign. Having a single **certificate** company is the most efficient way to manage the program, Bennett says. VeriSign is

receiving...

...Institute of Certified Public Accountants began investigating the possibility of certifying Web sites. At that **time**, the organization commissioned a study that showed consumers who don't buy over the Web...

...disclose how they will use any personal information about customers collected during a transaction.

WebTrust **certification** allows businesses to use the information for internal marketing, Bennett says. If a company wants...

...Rugullies encourages merchants to post their security and privacy policies on their sites. "Consumers have **valid** concerns about the ethical use of personal profile information collected about them as they move...

...to lose," Rugullies notes.

Service Provider Certifies Transactions

The first EC Web site to earn **certification** is run by Fort Thomas, Ky.-based Resource Marketing. The company hosts EC-enabled Web sites, which merchants can create online. The CPA **certification** covers transactions with those merchants. Research Marketing sought CPA **certification** because it found that even merchants ready to conduct their own business on the Internet...

...Marketing has seen a 50 percent increase in EC transactions, Swainhart says. He says the **certification** must contribute to the increased business, although he can't prove it.

Scrutinizing Business Practices company expects this year to pay about \$5,000 to achieve and maintain the **certification**. After that, the annual cost should drop to about \$2,000, he says. Bennett says the cost of **certification** will vary among accounting firms. Findley refused to say what his firm charges, but says...

?